

Southeast Conservation Blueprint Summary

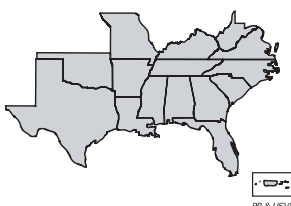
for South Carolina

Created 04/18/2023

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**The Southeast
Conservation
Adaptation Strategy
SECAS**



The Southeast Conservation Blueprint 2022

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About the Southeast Blueprint

The Southeast Conservation Blueprint is the primary product of the [Southeast Conservation Adaptation Strategy](#) (SECAS). It is a living, spatial plan to achieve the SECAS vision of a connected network of lands and waters across the Southeast and Caribbean. The Blueprint is regularly updated to incorporate new data, partner input, and information about on-the-ground conditions.

Across 15 states of the Southeast, the Blueprint identifies priority areas based on a suite of natural and cultural resource indicators representing terrestrial, freshwater, and marine ecosystems. A connectivity analysis identifies corridors that link coastal and inland areas and span climate gradients. This portion of the Southeast Blueprint is referred to as the "Base Blueprint".

To provide more complete coverage of the SECAS geography, the Blueprint incorporates two additional input plans: the Florida Marine Blueprint for marine areas in Florida and the Caribbean Landscape Conservation Design for inland areas in Puerto Rico.

For more information:

- Visit the [Blueprint webpage](#)
- Review the [Blueprint 2022 Development Process](#)
- View and download the Blueprint data and make maps on the [Blueprint page of the SECAS Atlas](#)

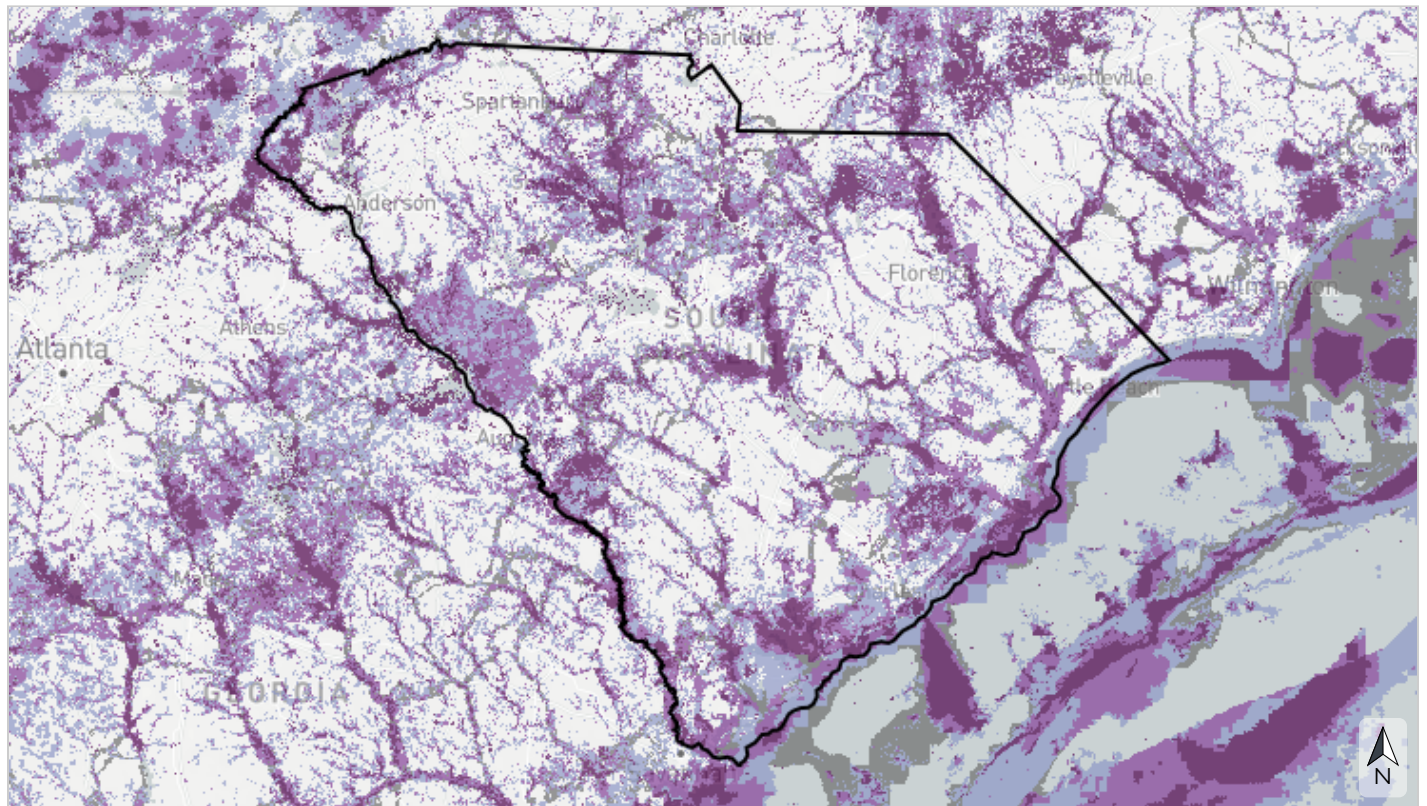
We're here to help!

- Do you have a question about the Blueprint?
- Would you like help using the Blueprint to support a proposal or inform a decision?
- Do you have a suggestion on how to improve the Blueprint? The Blueprint and its inputs are regularly revised based on input from people like you.
- Do you have feedback on how to improve the Simple Viewer interface?

If you need help or have questions, [contact Southeast Blueprint staff](#) by reaching out to a member of the user support team.

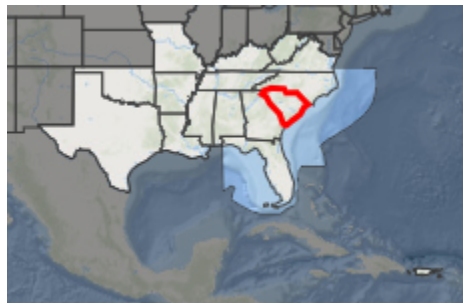
We're here to support you. We really mean it. It's what we do!

Southeast Blueprint Priorities







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Priorities for a connected network of lands and waters

-  Highest priority
-  High priority
-  Medium priority
-  Priority connections

Priority Categories

For a connected network of lands and waters

In total, Blueprint priorities and priority connections cover roughly 50% of the Southeast Blueprint geography.

Highest priority

Areas where conservation action would make the biggest impact, based on a suite of natural and cultural resource indicators. This class covers roughly 10% of the Southeast Blueprint geography.

High priority

Areas where conservation action would make a big impact, based on a suite of natural and cultural resource indicators. This class covers roughly 15% of the Southeast Blueprint geography.

Medium priority

Areas where conservation action would make an above-average impact, based on a suite of natural and cultural resource indicators. This class covers roughly 20% of the Southeast Blueprint geography.

Priority connections

Connections between priority areas that cover the shortest distance possible while routing through as much Blueprint priority as possible. This class covers roughly 5% of the Southeast Blueprint geography.

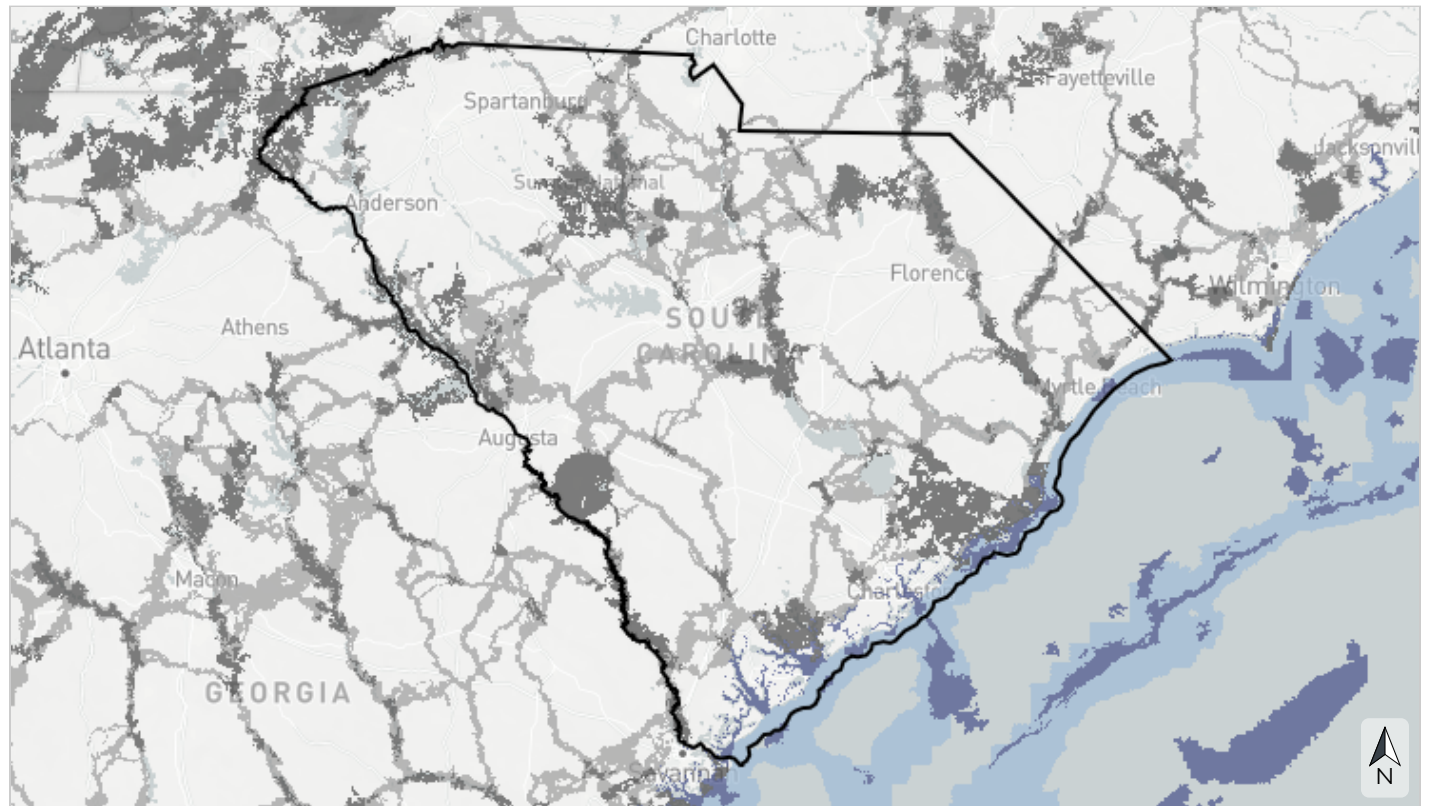
Table 1: Extent of each Blueprint priority category.

Priority Category	Acres	Percent of Area
Highest priority	2,425,460	11.8%
High priority	3,667,182	17.9%
Medium priority	4,006,203	19.5%
Priority connections	707,588	3.5%
Lower priority	9,688,594	47.3%
Total area	20,495,027	100%

Hubs and Corridors

The Blueprint uses a least-cost path connectivity analysis to identify corridors that link hubs across the shortest distance possible, while also routing through as much Blueprint priority as possible.

Inland hubs are large patches (~5,000+ acres) of highest priority Blueprint areas and/or protected lands, connected by inland corridors. Marine and estuarine hubs are large estuaries and large patches (~5,000+ acres) of highest priority Blueprint areas. Marine and estuarine corridors connect those hubs within broad marine mammal movement areas.



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- Inland hubs
- Inland corridors
- Marine & estuarine hubs
- Marine & estuarine corridors
- Not a hub or corridor

Table 2: Extent of hubs and corridors.

Type	Acres	Percent of Area
Inland hubs	2,378,664	11.6%
Inland corridors	3,040,703	14.8%
Marine & estuarine hubs	332,769	1.6%
Marine & estuarine corridors	396,428	1.9%
Not a hub or corridor	14,346,462	70.0%
Total area	20,495,027	100%

Indicator Summary

Table 3: Terrestrial indicators.

Indicator	Present
East Coastal Plain open pine birds	✓
Equitable access to potential parks	✓
Fire frequency	✓
Great Plains perennial grasslands	-
Greenways & trails	✓
Intact habitat cores	✓
Interior Southeast grasslands	✓
Mississippi Alluvial Valley forest birds (protection)	-
Mississippi Alluvial Valley forest birds (reforestation)	-
Playas	-
Resilient terrestrial sites	✓
South Atlantic amphibian & reptile areas	✓
South Atlantic forest birds	✓
South Atlantic low-urban historic landscapes	✓
Urban park size	✓
West Coastal Plain & Ouachitas forested wetland birds	-
West Coastal Plain & Ouachitas open pine birds	-
West Gulf Coast mottled duck nesting	-

Table 4: Freshwater indicators.

Indicator	Present
Atlantic migratory fish habitat	✓
Gulf migratory fish connectivity	-
Imperiled aquatic species	✓
West Virginia imperiled aquatic species	-
Natural landcover in floodplains	✓
Network complexity	✓
Permeable surface	✓

Table 5: Coastal & marine indicators.

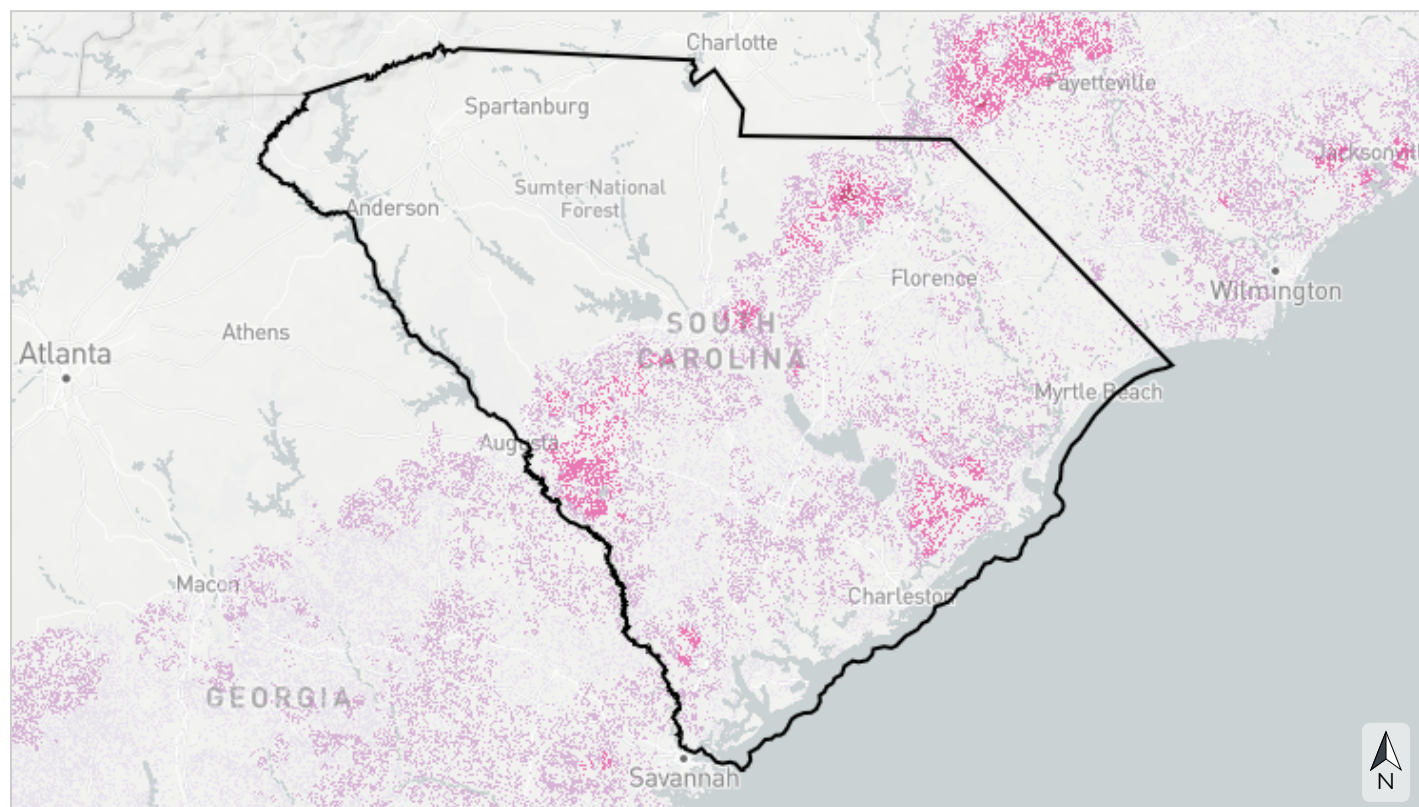
Indicator	Present
Atlantic estuarine fish habitat	✓
Coastal shoreline condition	✓
Estuarine coastal condition	✓
Islands	✓
Resilient coastal sites	✓
Seagrasses	-
South Atlantic beach birds	✓
South Atlantic hardbottom & deep-sea coral	✓
South Atlantic marine mammals	✓
South Atlantic marine birds	✓
South Atlantic maritime forest	✓
Stable coastal wetlands	✓



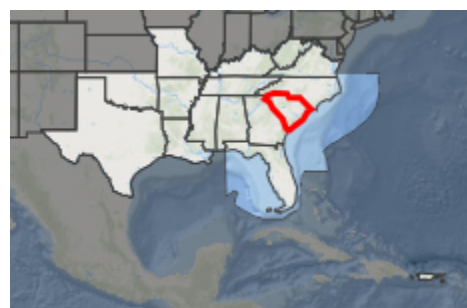
Terrestrial

East Coastal Plain open pine birds

This indicator identifies areas within the historic longleaf pine range east of the Mississippi River where creating or maintaining open pine habitat would most benefit six focal species of birds (Bachman's sparrow, red-cockaded woodpecker, Henslow's sparrow, red-headed woodpecker, Northern bobwhite, brown-headed nuthatch). It prioritizes areas for open pine conservation based on suitability for longleaf pine, feasibility of prescribed burning, proximity to protected lands, habitat suitability for focal bird species, and proximity to source bird populations. It originates from the East Gulf Coastal Plain Joint Venture's prioritization of areas for open pine ecosystem restoration.



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- High priority for open pine conservation for focal bird species (Bachman's sparrow, red-cockaded woodpecker, Henslow's sparrow, red-headed woodpecker, Northern bobwhite, and brown-headed nuthatch) (score >80-100)
- Medium-high priority (score >60-80)
- Medium priority (score >40-60)
- Medium-low priority (score >20-40)
- Low priority for open pine conservation for focal bird species (score 0-20)

Table 6: Indicator values for East Coastal Plain open pine birds in this area. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	High priority for open pine conservation for focal bird species (Bachman's sparrow, red-cockaded woodpecker, Henslow's sparrow, red-headed woodpecker, Northern bobwhite, and brown-headed nuthatch) (score >80-100)	0	0%
	Medium-high priority (score >60-80)	8,735	<0.1%
	Medium priority (score >40-60)	412,973	2.0%
	Medium-low priority (score >20-40)	1,646,038	8.0%
↓ Low	Low priority for open pine conservation for focal bird species (score 0-20)	661,965	3.2%
	Area not evaluated for this indicator	17,765,316	86.7%
	Total area	20,495,027	100%

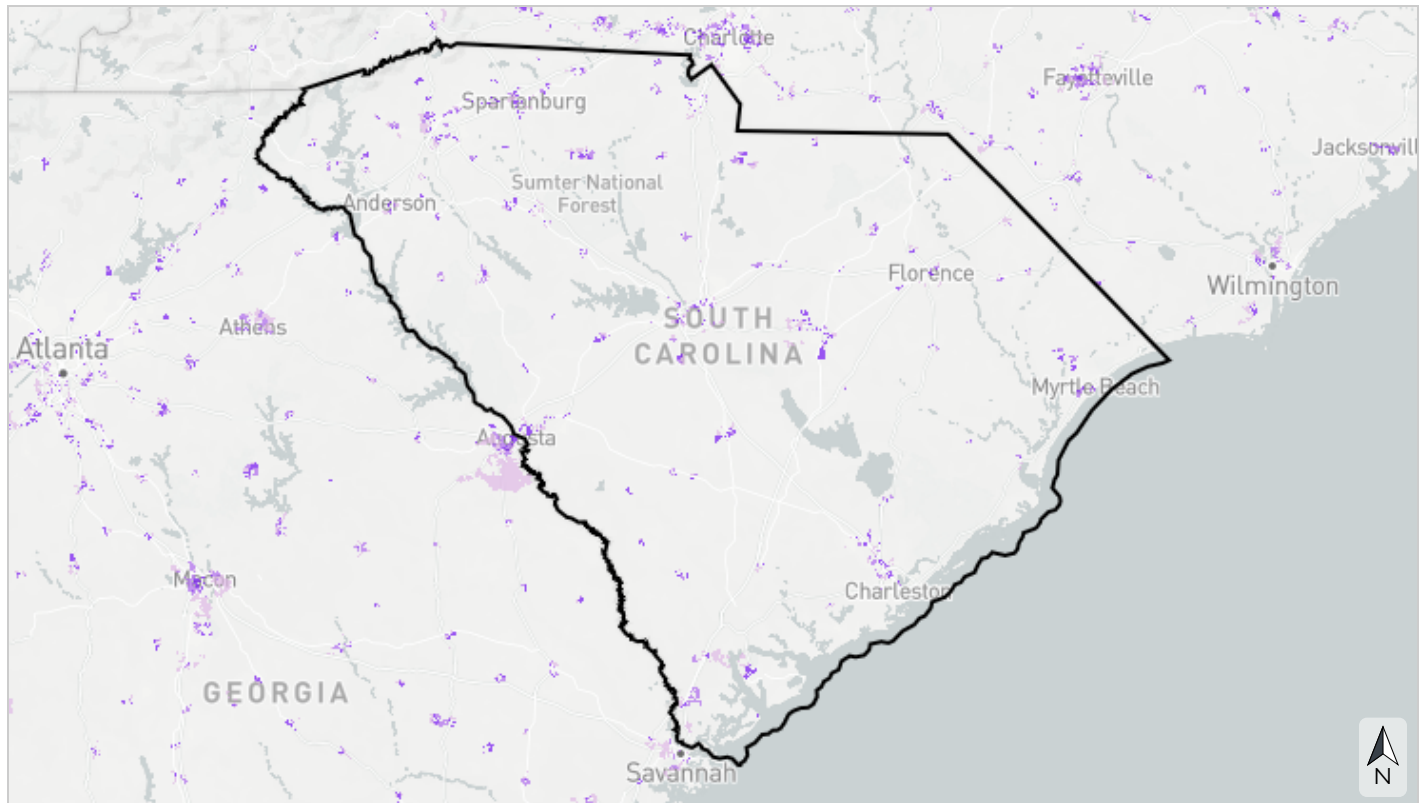
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Terrestrial

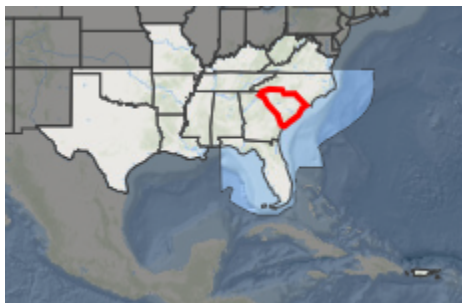
Equitable access to potential parks

This cultural resource indicator prioritizes places to create new parks that would fill gaps in equitable access to open space within socially vulnerable communities. It identifies areas where residents currently lack access to parks within a 10-minute walk (accounting for walkable road networks and access barriers like highways and fences), then prioritizes based on park need using demographic and environmental metrics. Parks help improve public health, foster a conservation ethic by providing opportunities for people to connect with nature, and support critical ecosystem services. This indicator originates from the Trust for Public Land's ParkServe park priority areas.



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- Very high priority for a new park that would create nearby equitable access
- High priority for a new park that would create nearby equitable access
- Moderate priority for a new park that would create nearby equitable access

Table 7: Indicator values for equitable access to potential parks in this area. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	Very high priority for a new park that would create nearby equitable access	102,574	0.5%
	High priority for a new park that would create nearby equitable access	93,678	0.5%
↓ Low	Moderate priority for a new park that would create nearby equitable access	108,118	0.5%
	<i>Area not evaluated for this indicator</i>	<i>20,190,657</i>	<i>98.5%</i>
	Total area	20,495,027	100%

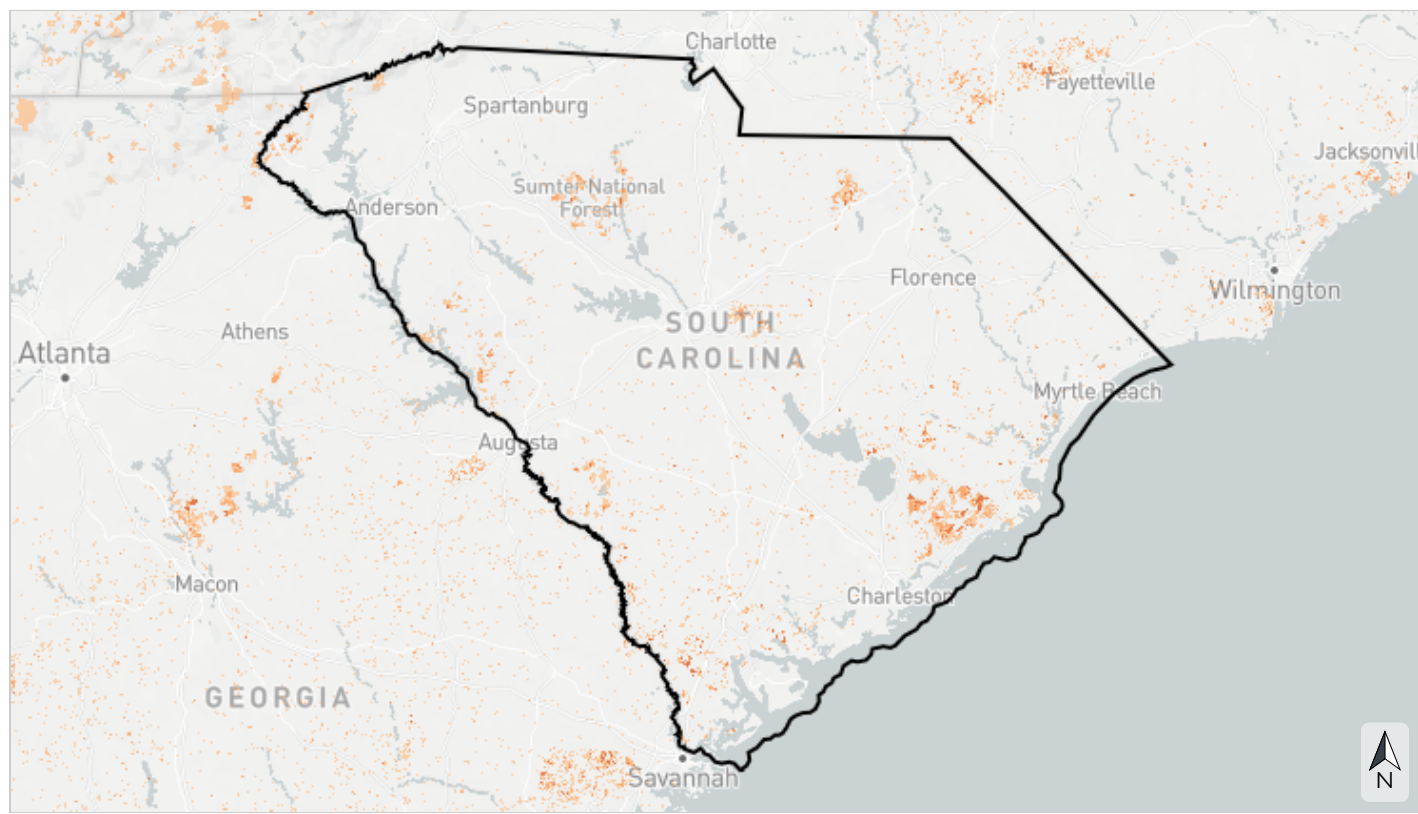
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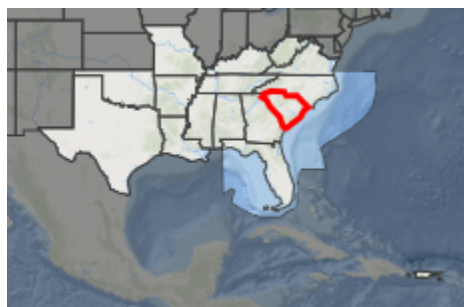
Terrestrial

Fire frequency

This indicator uses remote sensing to estimate the number of times an area has been burned from 2013 to 2021. Many Southeastern ecosystems rely on regular, low-intensity fires to maintain habitat, encourage native plant growth, and reduce wildfire risk. This indicator combines burned area layers from both U.S. Geological Survey Landsat data and the inter-agency Monitoring Trends in Burn Severity program. Landsat-based fire predictions within the range of longleaf pine are also available through Southeast FireMap.

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- Burned 3+ times from 2013-2021
- Burned 2 times from 2013-2021
- Burned 1 time from 2013-2021
- Not burned from 2013-2021 or row crop

Table 8: Indicator values for fire frequency in this area. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values	Acres	Percent of Area	
↑ High	Burned 3+ times from 2013-2021	40,228	0.2%	↑ In good condition
	Burned 2 times from 2013-2021	134,043	0.7%	
	Burned 1 time from 2013-2021	513,256	2.5%	
↓ Low	Not burned from 2013-2021 or row crop	19,802,137	96.6%	↓ Not in good condition
	Area not evaluated for this indicator	5,364	<0.1%	
	Total area	20,495,027	100%	

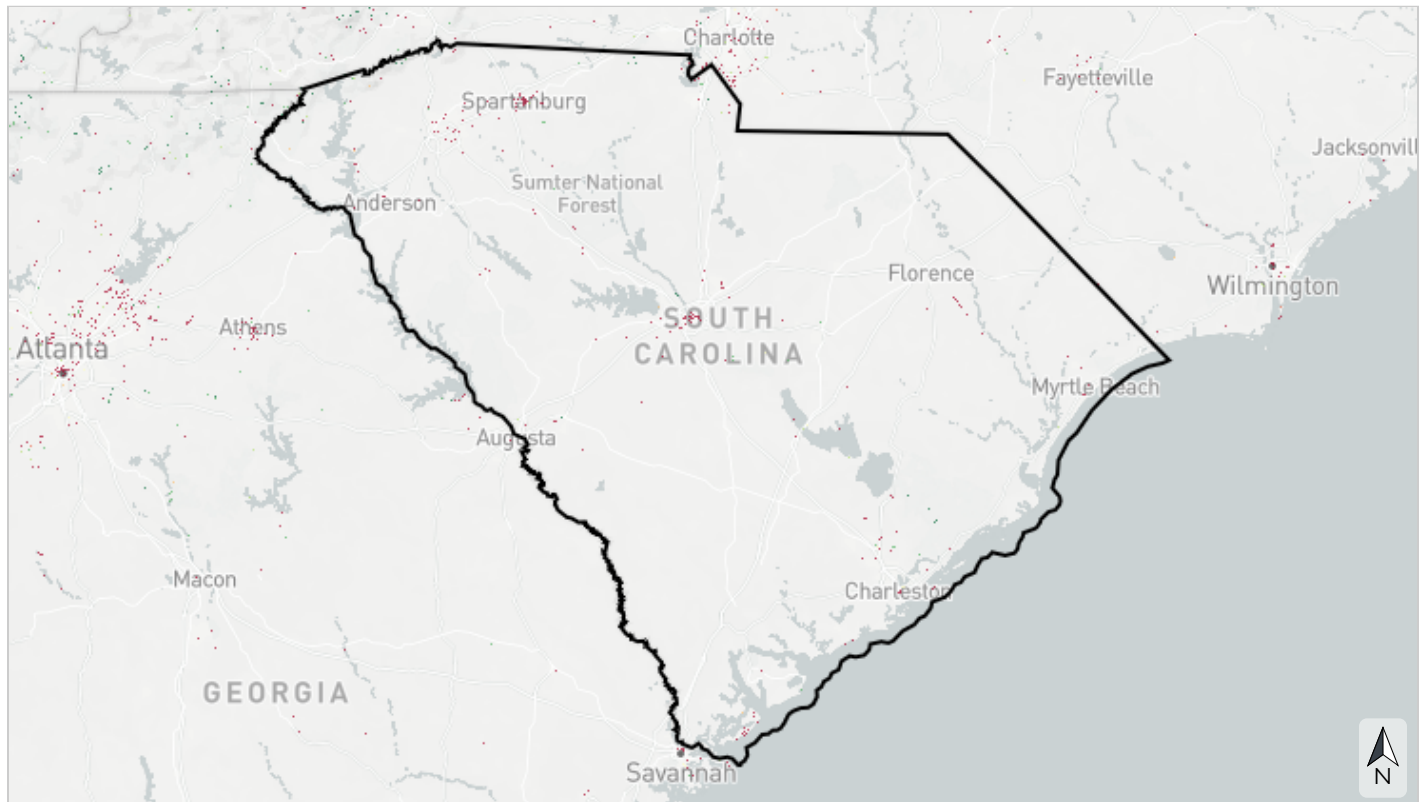
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Terrestrial

Greenways & trails

This cultural resource indicator measures both the natural condition and connected length of greenways and trails to characterize the quality of the recreational experience. Natural condition is based on the amount of impervious surface surrounding the path. Connected length captures how far a person can go without leaving a dedicated path, based on common distances for walking, running, and biking. This indicator originates from OpenStreetMap.



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- Mostly natural and connected for ≥ 40 km
- Mostly natural and connected for 5 to < 40 km or partly natural and connected for ≥ 40 km
- Mostly natural and connected for 1.9 to < 5 km, partly natural and connected for 5 to < 40 km, or developed and ≥ 40 km
- Mostly natural and connected for < 1.9 km, partly natural and connected for 1.9 to < 5 km, or developed and connected for 5 to < 40 km
- Partly natural and connected for < 1.9 km or developed and connected for 1.9 to < 5 km
- Developed and connected for < 1.9 km
- Sidewalk or other path

Table 9: Indicator values for greenways & trails in this area. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values	Acres	Percent of Area	
↑ High	Mostly natural and connected for ≥ 40 km	2,923	<0.1%	
	Mostly natural and connected for 5 to <40 km or partly natural and connected for ≥ 40 km	4,296	<0.1%	
	Mostly natural and connected for 1.9 to <5 km, partly natural and connected for 5 to <40 km, or developed and ≥ 40 km	2,140	<0.1%	
	Mostly natural and connected for <1.9 km, partly natural and connected for 1.9 to <5 km, or developed and connected for 5 to <40 km	911	<0.1%	↑ In good condition
↓ Low	Partly natural and connected for <1.9 km or developed and connected for 1.9 to <5 km	969	<0.1%	↓ Not in good condition
	Developed and connected for <1.9 km	328	<0.1%	
	Sidewalk or other path	35,652	0.2%	
	Area not evaluated for this indicator	20,447,809	99.8%	
	Total area	20,495,027	100%	

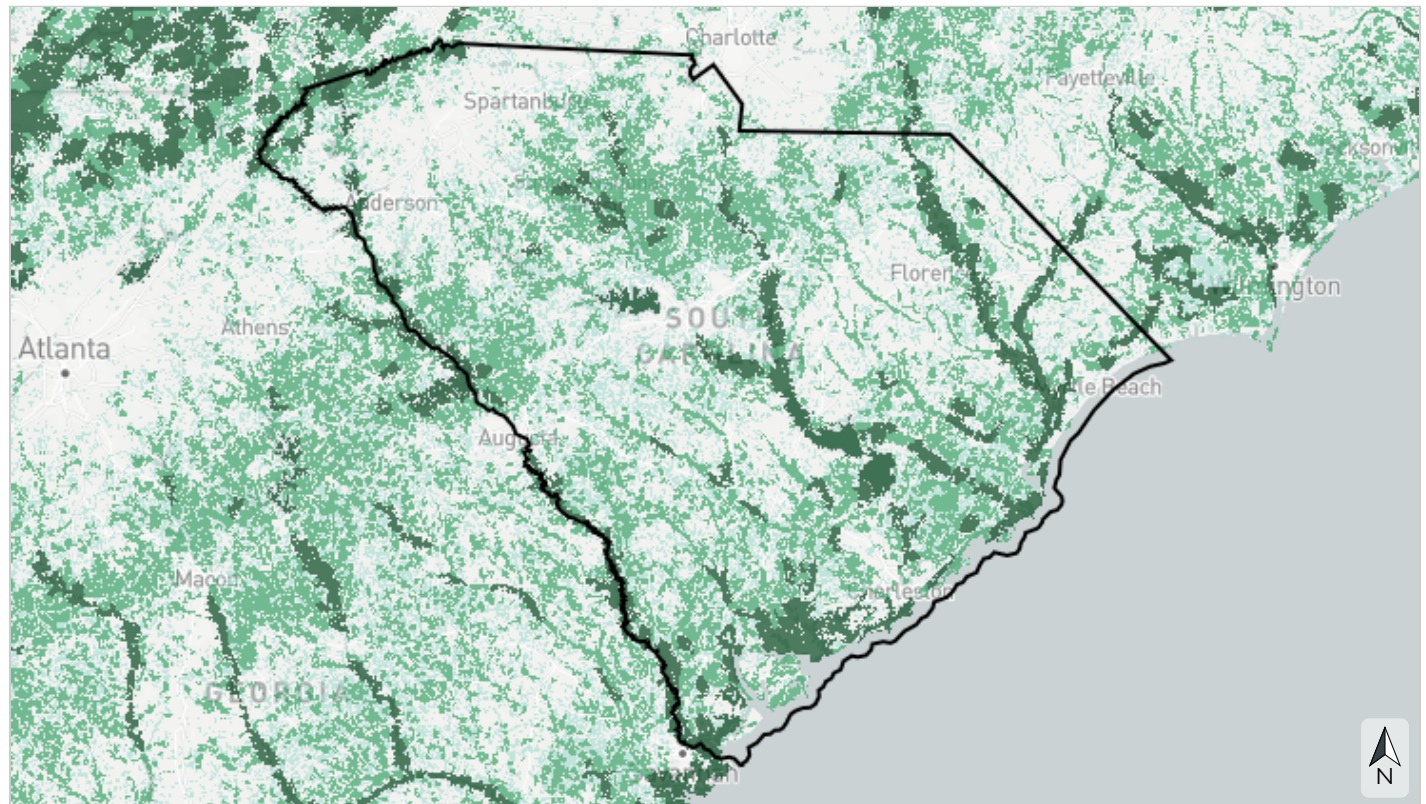
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Terrestrial

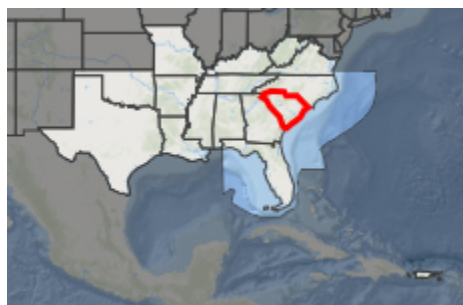
Intact habitat cores

This indicator represents the size of large, unfragmented patches of natural habitat. It identifies minimally disturbed natural areas at least 100 acres in size and greater than 200 meters wide. Large areas of intact natural habitat are important for many wildlife species, including reptiles and amphibians, birds, and large mammals. This indicator originates from Esri's green infrastructure data.



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- Large core (>10,000 acres)
- Medium core (>1,000-10,000 acres)
- Small core (>100-1,000 acres)
- Not a core

Table 10: Indicator values for intact habitat cores in this area. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values	Acres	Percent of Area	
↑ High	Large core (>10,000 acres)	2,456,609	12.0%	
	Medium core (>1,000-10,000 acres)	5,144,642	25.1%	
	Small core (>100-1,000 acres)	3,257,340	15.9%	↑ In good condition
↓ Low	Not a core	9,631,072	47.0%	↓ Not in good condition
	Area not evaluated for this indicator	5,364	<0.1%	
	Total area	20,495,027	100%	

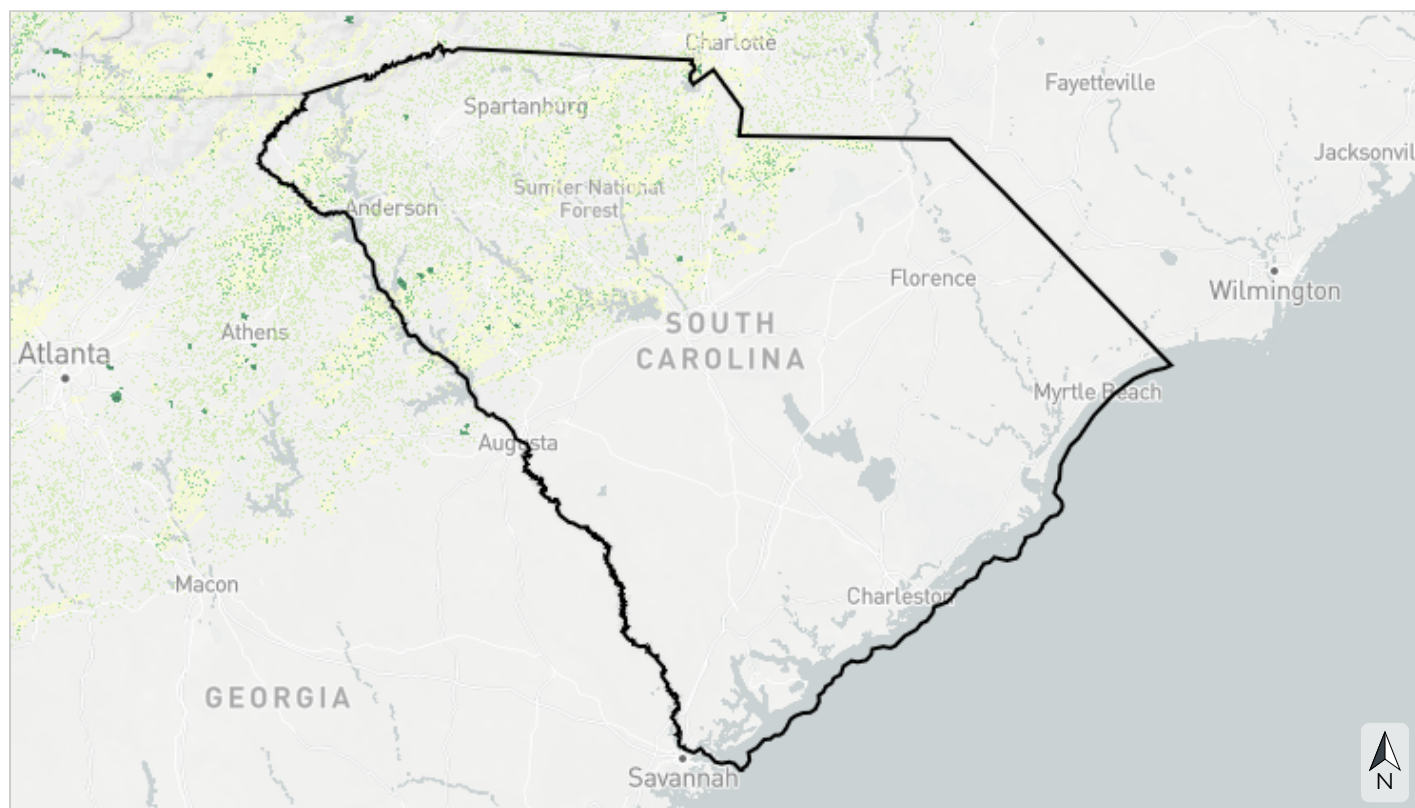
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Terrestrial

Interior Southeast grasslands

This indicator represents grasslands in the interior southeastern United States, which support important plants, birds, and pollinators. It includes grasslands with and without trees that are historically maintained by geology (e.g., outcrops, glades, and barrens), fire (e.g., Piedmont prairies), and/or the regular violent flooding on the banks of high-energy rivers known as “riverscour” (e.g., riverscour prairies). Known grasslands receive the highest scores, followed by bumble bee habitat buffers around known sites, areas in potentially compatible management, and restoration opportunities within grassland geology. This indicator combines data from multiple sources, including the Southeastern Grasslands Initiative, the Central Hardwoods Joint Venture, the Rangeland Analysis Platform, and The Nature Conservancy.



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- Known grassland
- Known grassland buffer
- Potentially compatible management within grassland geology (undeveloped powerline right-of-way or perennial forbs and grasses)
- Potentially compatible management outside of grassland geology (undeveloped powerline right-of-way or perennial forbs and grasses)
- Grassland geology
- Grassland less likely

Table 11: Indicator values for Interior Southeast grasslands in this area. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	Known grassland	1,642	<0.1%
	Known grassland buffer	13,299	<0.1%
	Potentially compatible management within grassland geology (undeveloped powerline right-of-way or perennial forbs and grasses)	175,112	0.9%
	Potentially compatible management outside of grassland geology (undeveloped powerline right-of-way or perennial forbs and grasses)	752,130	3.7%
	Grassland geology	1,198,749	5.8%
↓ Low	Grassland less likely	5,060,557	24.7%
	Area not evaluated for this indicator	13,293,538	64.9%
	Total area	20,495,027	100%

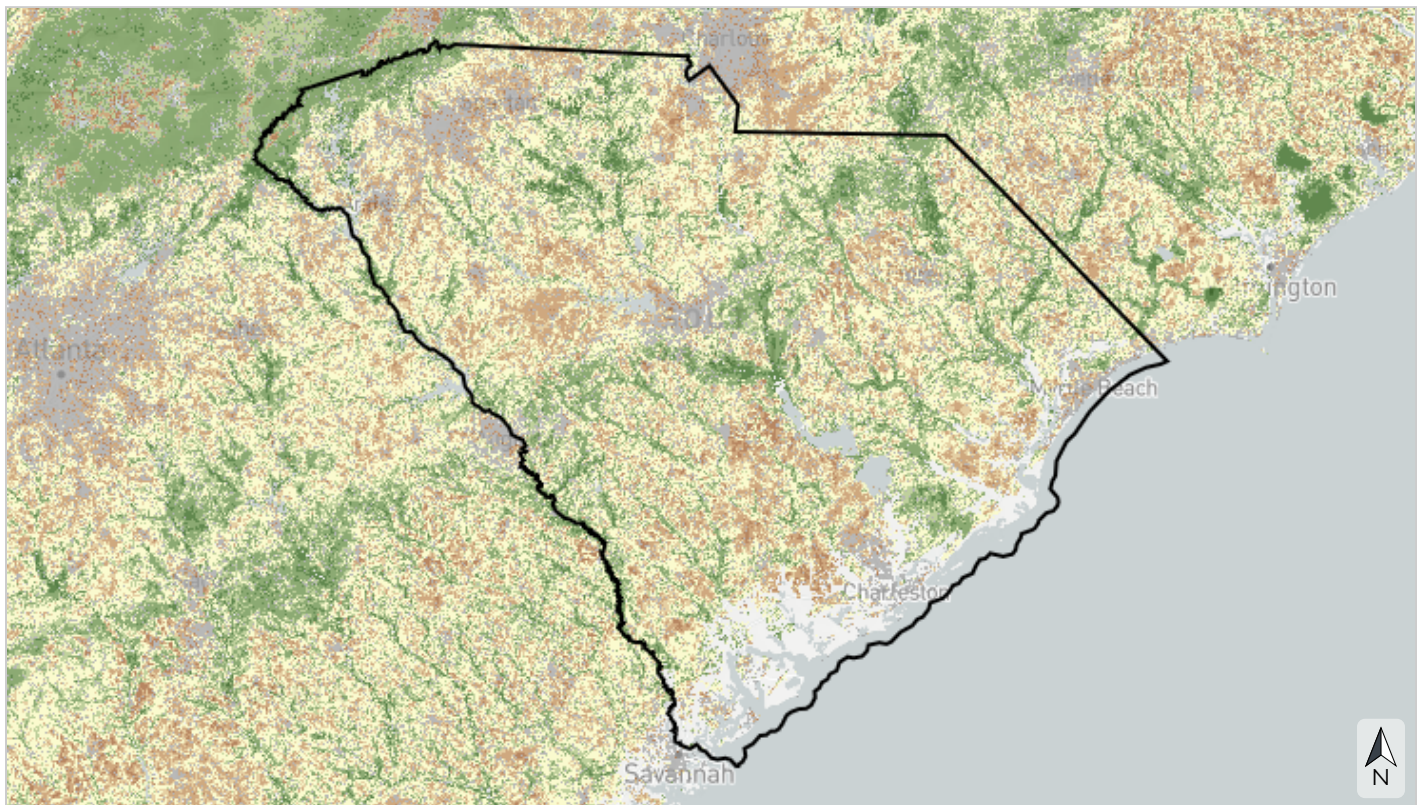
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



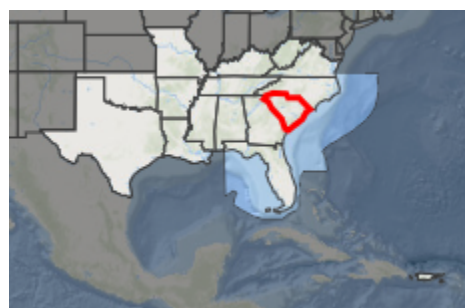
Terrestrial

Resilient terrestrial sites

This indicator depicts an area's capacity to maintain species diversity and ecosystem function in the face of climate change. It measures two factors that influence resilience. The first, landscape diversity, reflects the number of microhabitats and climatic gradients created by topography, elevation, and hydrology. The second, local connectedness, reflects the degree of habitat fragmentation and strength of barriers to species movement. Highly resilient sites contain many different habitat niches that support biodiversity, and allow species to move freely through the landscape to find suitable microclimates as the climate changes. This indicator originates from The Nature Conservancy's Resilient Land data.



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- Most resilient
- More resilient
- Slightly more resilient
- Average/median resilience
- Slightly less resilient
- Less resilient
- Least resilient
- Developed

Table 12: Indicator values for resilient terrestrial sites in this area. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	Most resilient	458,965	2.2%
	More resilient	2,514,266	12.3%
	Slightly more resilient	2,265,775	11.1%
	Average/median resilience	5,682,987	27.7%
	Slightly less resilient	2,338,749	11.4%
	Less resilient	1,930,952	9.4%
	Least resilient	277,777	1.4%
↓ Low	Developed	2,430,077	11.9%
	Area not evaluated for this indicator	2,595,478	12.7%
	Total area	20,495,027	100%

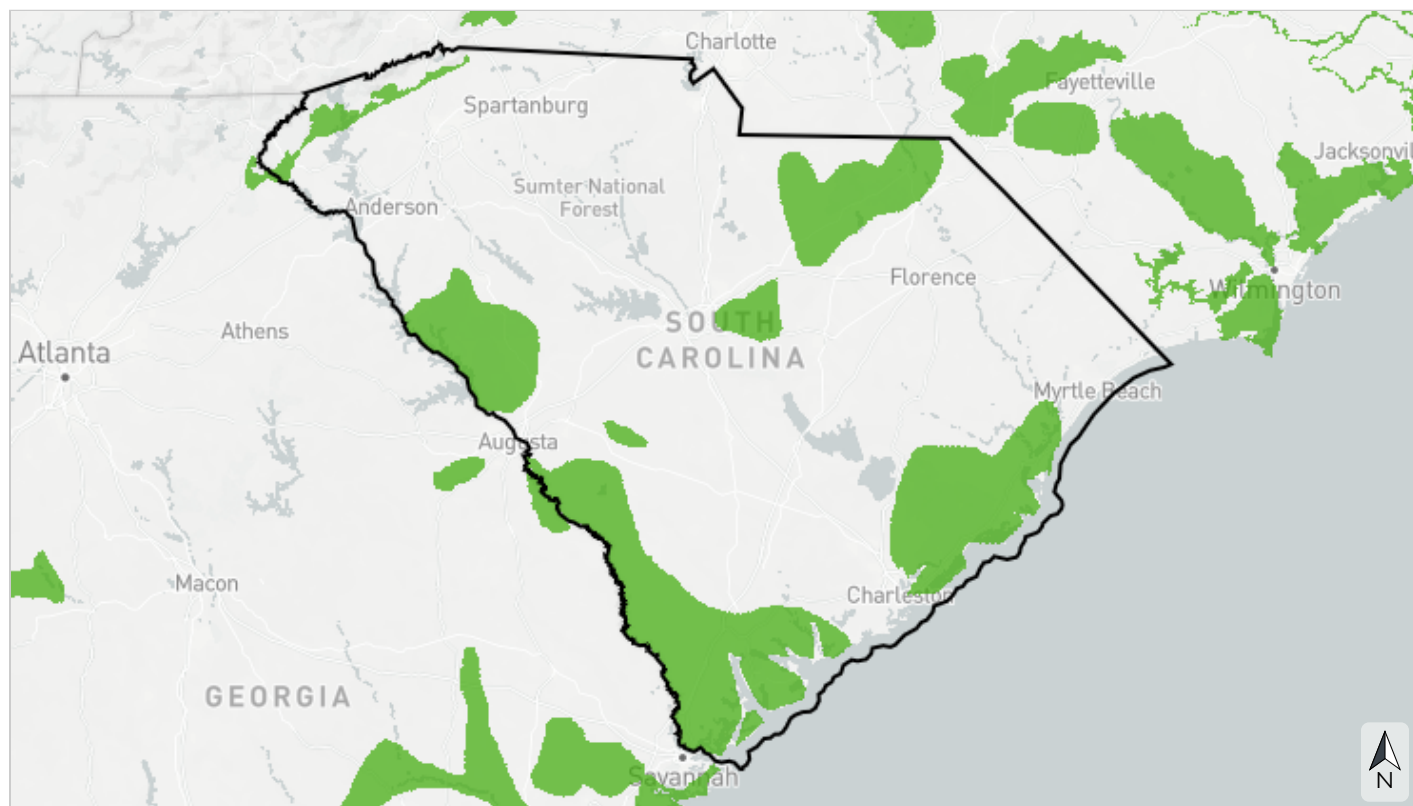
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Terrestrial

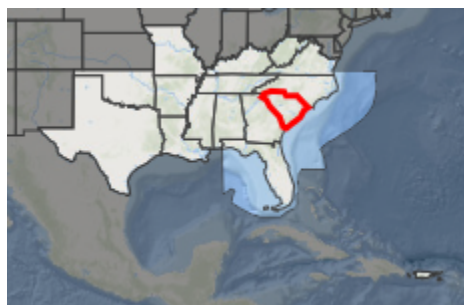
South Atlantic amphibian & reptile areas

This indicator represents Priority Amphibian and Reptile Conservation Areas (PARCAs) in the South Atlantic. PARCA is an expert-driven, nonregulatory designation that includes places capable of supporting viable amphibian and reptile populations, places occupied by rare or imperiled species, and places rich in biodiversity or species unique to that geographic area (i.e., endemism).



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- Priority Amphibian and Reptile Conservation Area (PARCA)
- Not a Priority Amphibian and Reptile Conservation Area (PARCA)

Table 13: Indicator values for South Atlantic amphibian & reptile areas in this area. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	Priority Amphibian and Reptile Conservation Area (PARCA)	4,398,024	21.5%
↓ Low	Not a Priority Amphibian and Reptile Conservation Area (PARCA)	15,787,409	77.0%
	Area not evaluated for this indicator	309,594	1.5%
	Total area	20,495,027	100%

Priority Amphibian and Reptile Conservation Areas:

Fort Jackson Fall Line Sandhills

Fort Jackson Army Base is located in the Fall Line-Sandhills region of South Carolina. This area is characterized by deep, droughty sands dissected by small blackwater streams that typically support pocosin habitat along their margins. The uplands would have supported longleaf pine historically, and periodic fire would have played a role in maintaining this forest. Within the existing forest, there are areas of bare sand in addition to sandstone and ironstone outcrops. This area contains records for the state threatened southern hognose snake, the pine snake, and possibly the state threatened pine barrens treefrog.

Middle Coastal Plain Flatwoods

This area of the state is characterized by longleaf pine flatwoods, mesic savannas and sandhills, a variety of isolated freshwater wetlands, including Carolina bays, and maritime communities, including maritime forest, beach dune and swale, and hammocks. This region, like the Southern Savannah River Valley-Southern Coastal Plain PARCA, is home to a significant number of rare and declining amphibian and reptile species, including the federally threatened flatwoods salamander, the state endangered gopher frog, the state threatened southern hognose snake, the state threatened spotted turtle, pine snake, eastern diamondback rattlesnake, pine woods snake, and others. And, like the previous area, it is also considered one of the most herpetofaunally diverse areas of the state.

Northern Fall Line Sandhills

This region comprises much of the Fall Line-Sandhill habitat in South Carolina between the Wateree River and the North Carolina state line. Like Fort Jackson, this area is characterized by deep, droughty sands dissected by small blackwater streams that typically support pocosin habitat along their margins. The uplands would have supported longleaf pine historically, and periodic fire would have played a role in maintaining this forest. Within the existing forest, there are areas of bare sand in addition to sandstone and ironstone outcrops. This region contains the only known extant populations of the state threatened pine barrens treefrog in South Carolina. This area also contains records for the state threatened southern hognose snake and the pine snake.

Savannah River Valley Lower Piedmont

The lower Piedmont region of the Savannah River Valley is characterized by low rolling hills and small streams dissecting mixed pine and hardwood forests. This region contains the only known populations of the state endangered Webster's salamander in South Carolina. This rare species occurs in extremely disjunct populations primarily in western Georgia and eastern Alabama. The populations in South Carolina are the easternmost known for this species.

South Carolina Blue Ridge Escarpment

South Carolina's Blue Ridge Escarpment is a region where the Blue Ridge Mountains meet the Atlantic Piedmont region. This region is characterized by high rainfall, lush cove forests, bare rocky cliffs, and numerous small streams and rivers. All of the known locations for the newly described patchnose salamander and dwarf blackbelly salamander, green salamander, federally threatened bog turtle, state endangered coal skink, timber rattlesnake, shovelnose salamander and seepage salamander are contained within this region.

South Edisto Sandhills

The South Edisto Sandhills area is characterized by fluvial sand deposits located along the southern branch of the Edisto River, located in southern Aiken County. This area consists of longleaf pine-wiregrass habitat that supports one of the few populations of the state endangered gopher tortoise. This area also supports the state threatened southern hognose snake, pine snake, and coral snake.

Southern Savannah River Valley Southern Coastal Plain

This large region comprises a wide variety of habitats including longleaf pine flatwoods, mesic savannas and sandhills, blackwater and brownwater rivers and streams, a variety of isolated freshwater wetlands, including Carolina bays and maritime communities such as maritime forest, beach dune and swale, and hammocks. This region is home to a significant number of rare and declining amphibian and reptile species, including the federally threatened flatwoods salamander, the state endangered gopher tortoise, the state endangered gopher frog, the state threatened southern hognose snake, the state threatened spotted turtle, pine snake, eastern diamondback rattlesnake, pine woods snake, bird-voiced treefrog, tiger salamander, and others. This region of South Carolina is one of the most herpetofaunally diverse areas of the state.

Tugaloo

Second highest salamander species richness in Georgia, especially in the genus *Desmognathus* (five species). Includes all but one known population (in South Carolina) of the locally endemic patch-nosed salamander, as well as green salamanders.

Yuchi/Vogtle

Pleistocene beach dune-origin sandhills that are a stronghold for southern hognose and pine snakes. Gopher tortoises are also present, though depleted from past human collection for food.

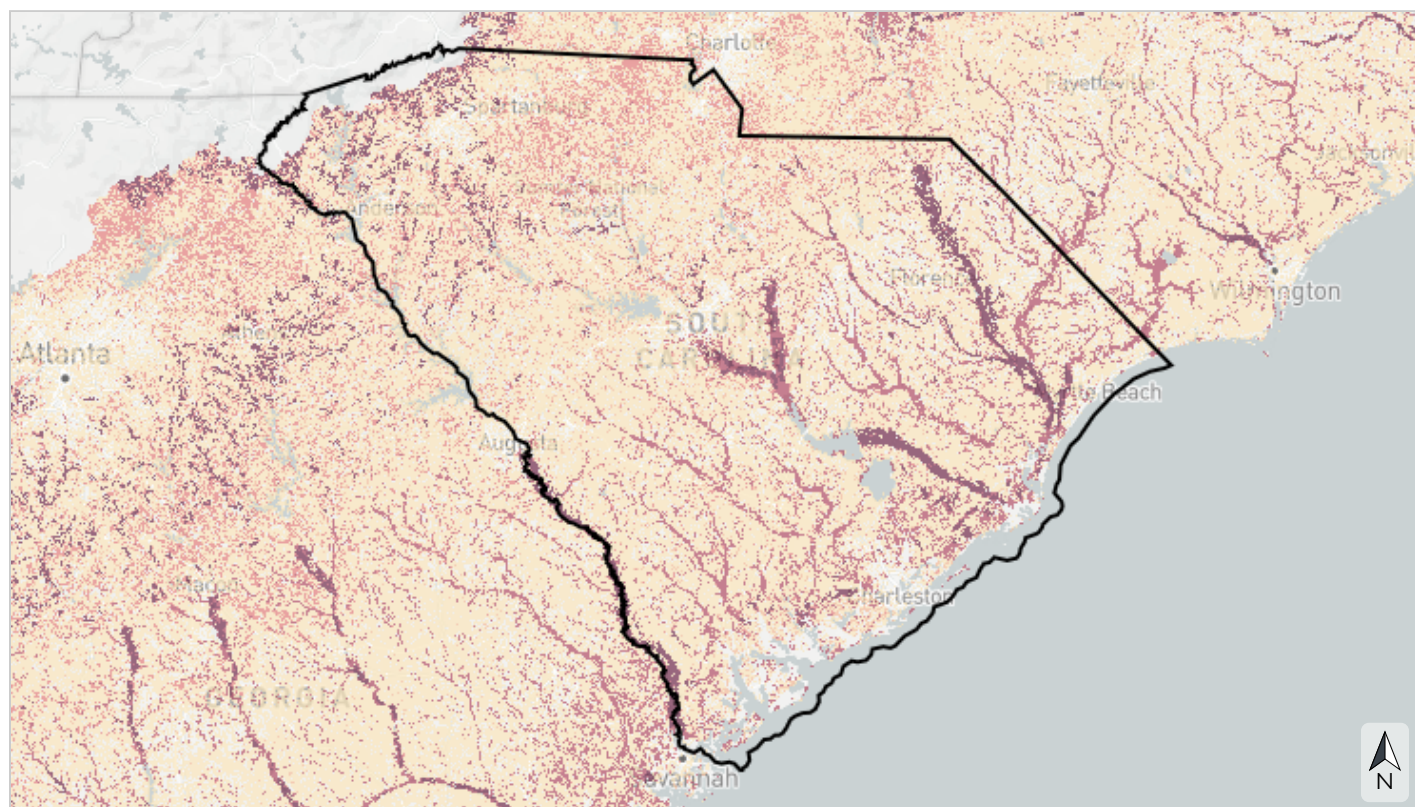
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Terrestrial

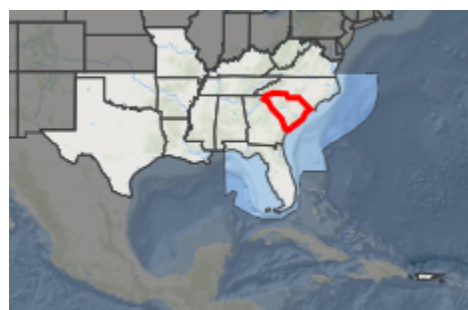
South Atlantic forest birds

This indicator is an index of habitat suitability for twelve upland hardwood and forested wetland bird species (wood thrush, whip-poor-will, American woodcock, red-headed woodpecker, Chuck-will's widow, hooded warbler, Kentucky warbler, Acadian flycatcher, Northern parula, black-throated green warbler, prothonotary warbler, Swainson's warbler) based on patch size and other ecosystem characteristics such as proximity to water and proximity to forest and ecotone edge. The needs of these species are increasingly restrictive at higher index values, reflecting better quality habitat. This indicator originates from Southeast Gap Analysis Program and Designing Sustainable Landscapes bird habitat models.



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43 86 172 miles



- Very large patches near water (potential for presence of Swainson's warbler)
- Large patches often near water (potential for presence of Northern parula, black-throated green warbler, or Prothonotary warbler)
- Medium patches (potential for presence of Acadian flycatcher)
- Small patches often near water (potential presence of hooded warbler or Kentucky warbler)
- Very small patches or near open areas (potential for presence of wood thrush, whip-poor-will, red-headed woodpecker, Chuck-will's widow, or American woodcock)
- Less potential for presence of forest bird index species

Table 14: Indicator values for South Atlantic forest birds in this area. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values	Acres	Percent of Area	
↑ High	Very large patches near water (potential for presence of Swainson's warbler)	907,695	4.4%	
	Large patches often near water (potential for presence of Northern parula, black-throated green warbler, or Prothonotary warbler)	1,751,996	8.5%	
	Medium patches (potential for presence of Acadian flycatcher)	1,374,684	6.7%	
	Small patches often near water (potential presence of hooded warbler or Kentucky warbler)	887,732	4.3%	↑ In good condition
↓ Low	Very small patches or near open areas (potential for presence of wood thrush, whip-poor-will, red-headed woodpecker, Chuck-will's widow, or American woodcock)	11,237,609	54.8%	↓ Not in good condition
	Less potential for presence of forest bird index species	4,016,361	19.6%	
	Area not evaluated for this indicator	318,951	1.6%	
	Total area	20,495,027	100%	

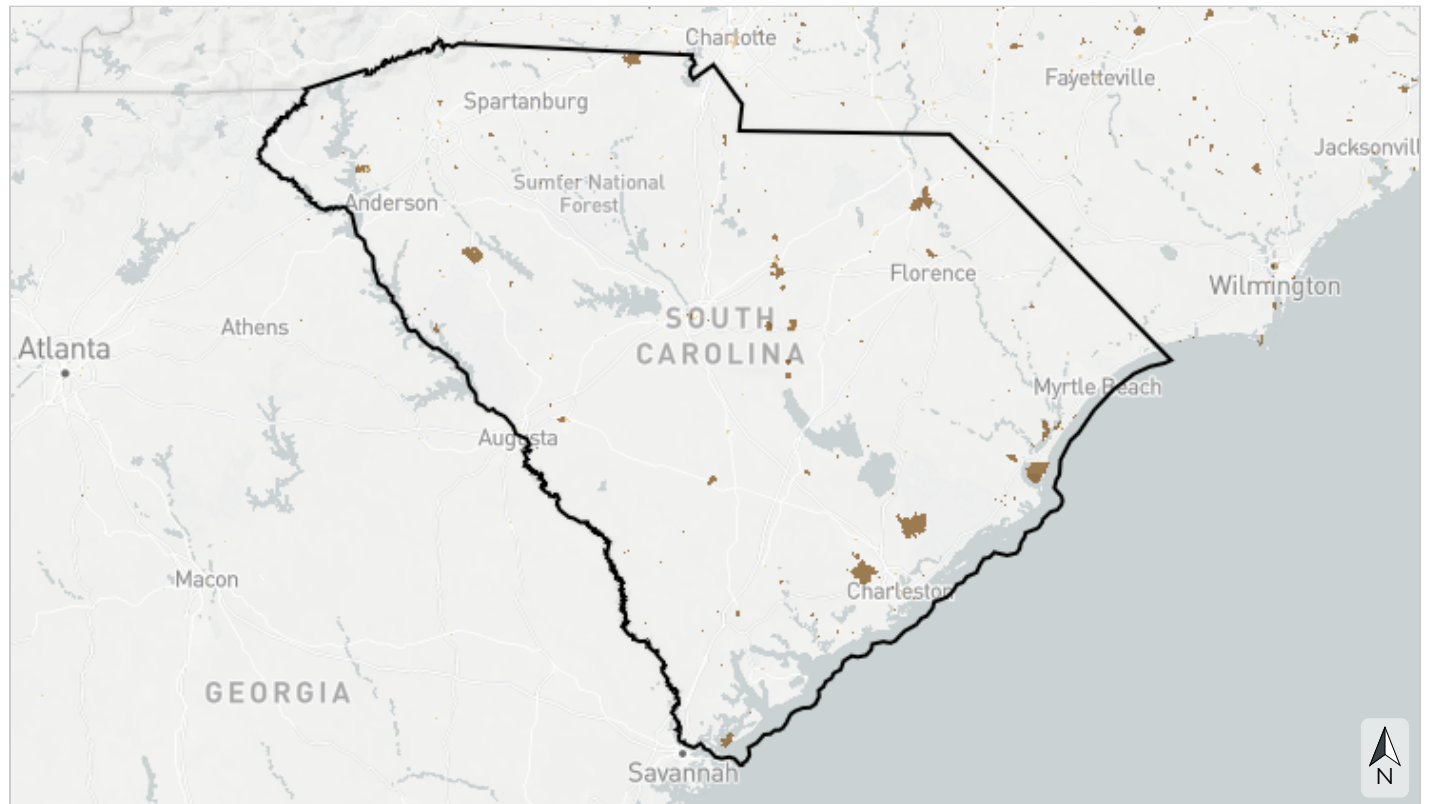
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Terrestrial

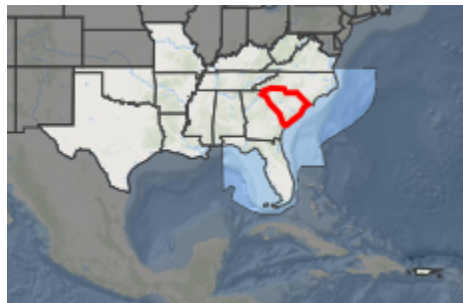
South Atlantic low-urban historic landscapes

This cultural resource indicator is an index of sites on the National Register of Historic Places surrounded by limited urban development. It identifies significant historic places that remain connected to their context in the natural world. This indicator originates from the National Park Service and various state historic resource agencies.



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- Historic place with nearby low-urban buffer
- Historic place with nearby high-urban buffer
- Not in the National Register of Historic Places

Table 15: Indicator values for South Atlantic low-urban historic landscapes in this area. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values	Acres	Percent of Area	
↑ High	Historic place with nearby low-urban buffer	194,869	1.0%	↑ In good condition
	Historic place with nearby high-urban buffer	23,823	0.1%	↓ Not in good condition
↓ Low	Not in the National Register of Historic Places	19,958,784	97.4%	
	<i>Area not evaluated for this indicator</i>	<i>317,552</i>	<i>1.5%</i>	
	Total area	20,495,027	100%	

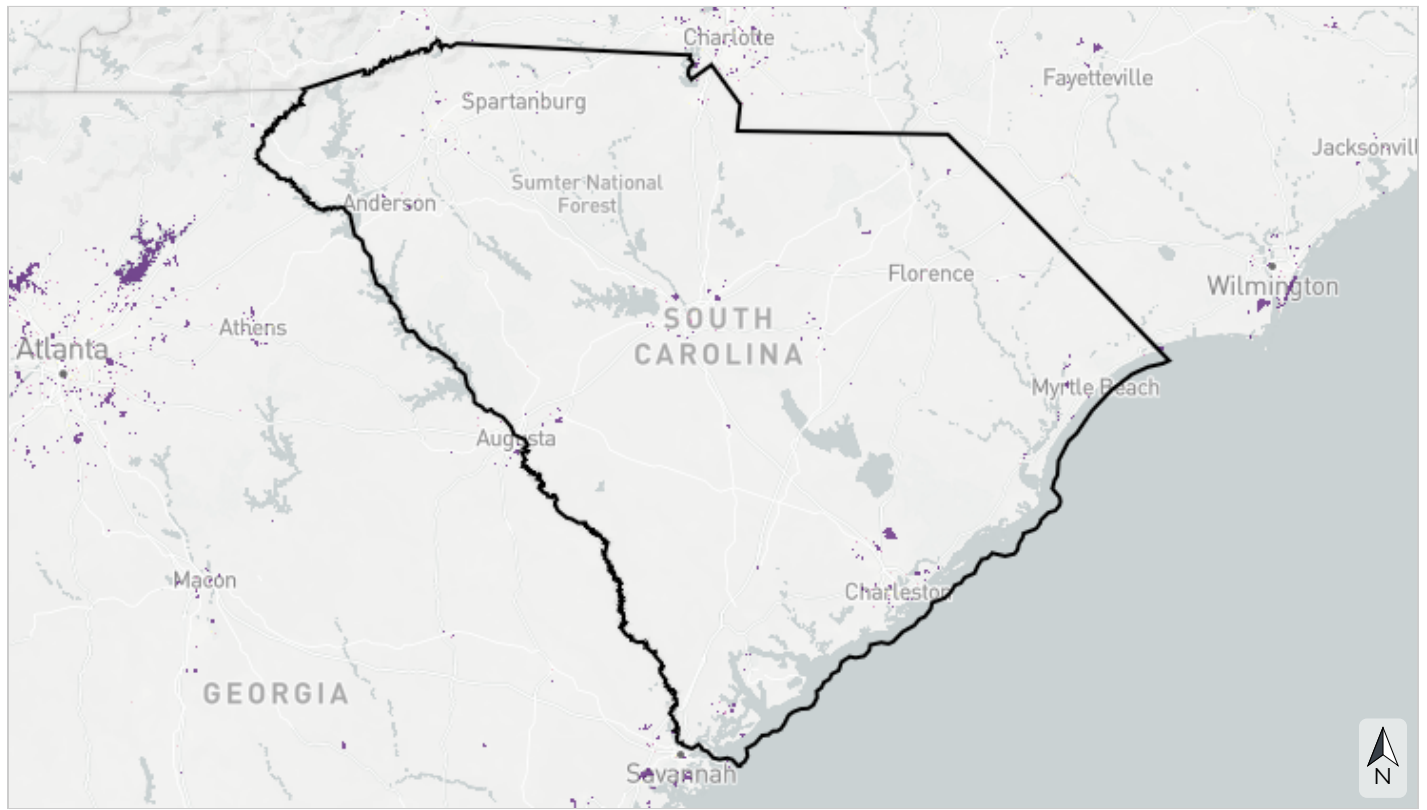
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Terrestrial

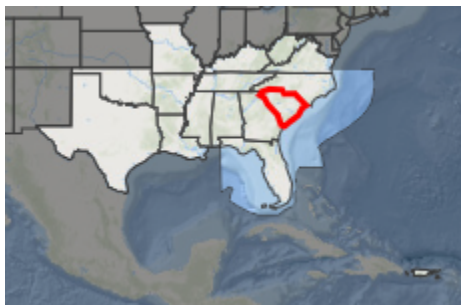
Urban park size

This cultural resource indicator measures the size of parks larger than 5 acres in the urban environment. Protected natural areas in urban environments provide urban residents a nearby place to connect with nature, and offer refugia for some species. This indicator complements the equitable access to potential parks indicator by capturing the value of existing parks. It originates from the U.S. Geological Survey's Protected Areas Database and 2019 National Land Cover Database percent developed impervious layer.



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- >75 acre urban park
- >50-75 acre urban park
- >30-50 acre urban park
- >10-30 acre urban park
- 5-10 acre urban park

Table 16: Indicator values for urban park size in this area. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	>75 acre urban park	45,890	0.2%
	>50-75 acre urban park	3,170	<0.1%
	>30-50 acre urban park	3,649	<0.1%
	>10-30 acre urban park	5,633	<0.1%
↓ Low	5-10 acre urban park	2,150	<0.1%
	Area not evaluated for this indicator	20,434,535	99.7%
	Total area	20,495,027	100%

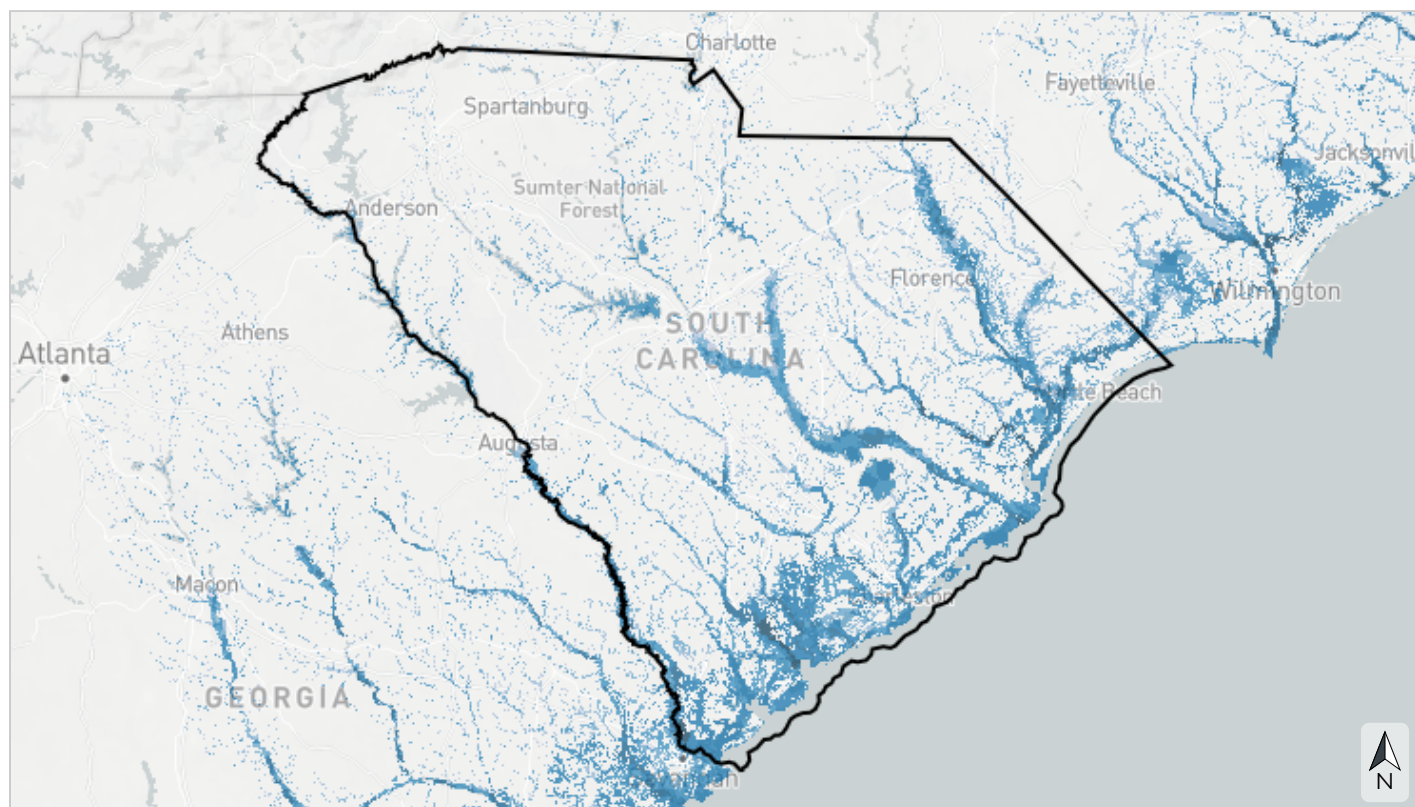
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Freshwater

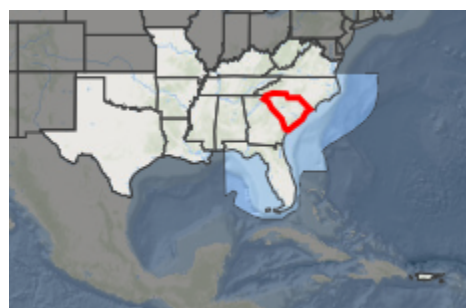
Atlantic migratory fish habitat

This indicator measures the condition of migratory fish habitat along the Atlantic coast within each catchment, using metrics of water quality, aquatic connectivity, habitat fragmentation, flow alteration, and more. Areas of excellent fish habitat are already in good condition and face few threats; restoration opportunity areas are doing well in some respects, but restoration projects could significantly improve them; degraded areas of opportunity face many challenges, and restoration projects are unlikely to increase available fish habitat unless particularly large in scope and scale. This indicator originates from the Atlantic Coast Fish Habitat Partnership's fish habitat conservation area mapping and prioritization project.



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- Final score of 80 (areas of excellent fish habitat)
- Final score of 70 (areas of excellent fish habitat)
- Final score of 60 (restoration opportunity areas)
- Final score of 50 (restoration opportunity areas)
- Final score of 40 (restoration opportunity areas)
- Final score of 30 (restoration opportunity areas)
- Final score of 20 (restoration opportunity areas)
- Final score of 10 (degraded areas of opportunity)
- Final score of 0 (degraded areas of opportunity)

Table 17: Indicator values for Atlantic migratory fish habitat in this area. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values	Acres	Percent of Area	
↑ High	Final score of 80 (areas of excellent fish habitat)	58,785	0.3%	
	Final score of 70 (areas of excellent fish habitat)	313,891	1.5%	↑ In good condition
	Final score of 60 (restoration opportunity areas)	1,135,493	5.5%	↓ Not in good condition
	Final score of 50 (restoration opportunity areas)	852,839	4.2%	
	Final score of 40 (restoration opportunity areas)	729,090	3.6%	
	Final score of 30 (restoration opportunity areas)	616,536	3.0%	
	Final score of 20 (restoration opportunity areas)	178,089	0.9%	
	Final score of 10 (degraded areas of opportunity)	27,034	0.1%	
↓ Low	Final score of 0 (degraded areas of opportunity)	2,116	<0.1%	
	Area not evaluated for this indicator	16,581,152	80.9%	
	Total area	20,495,027	100%	

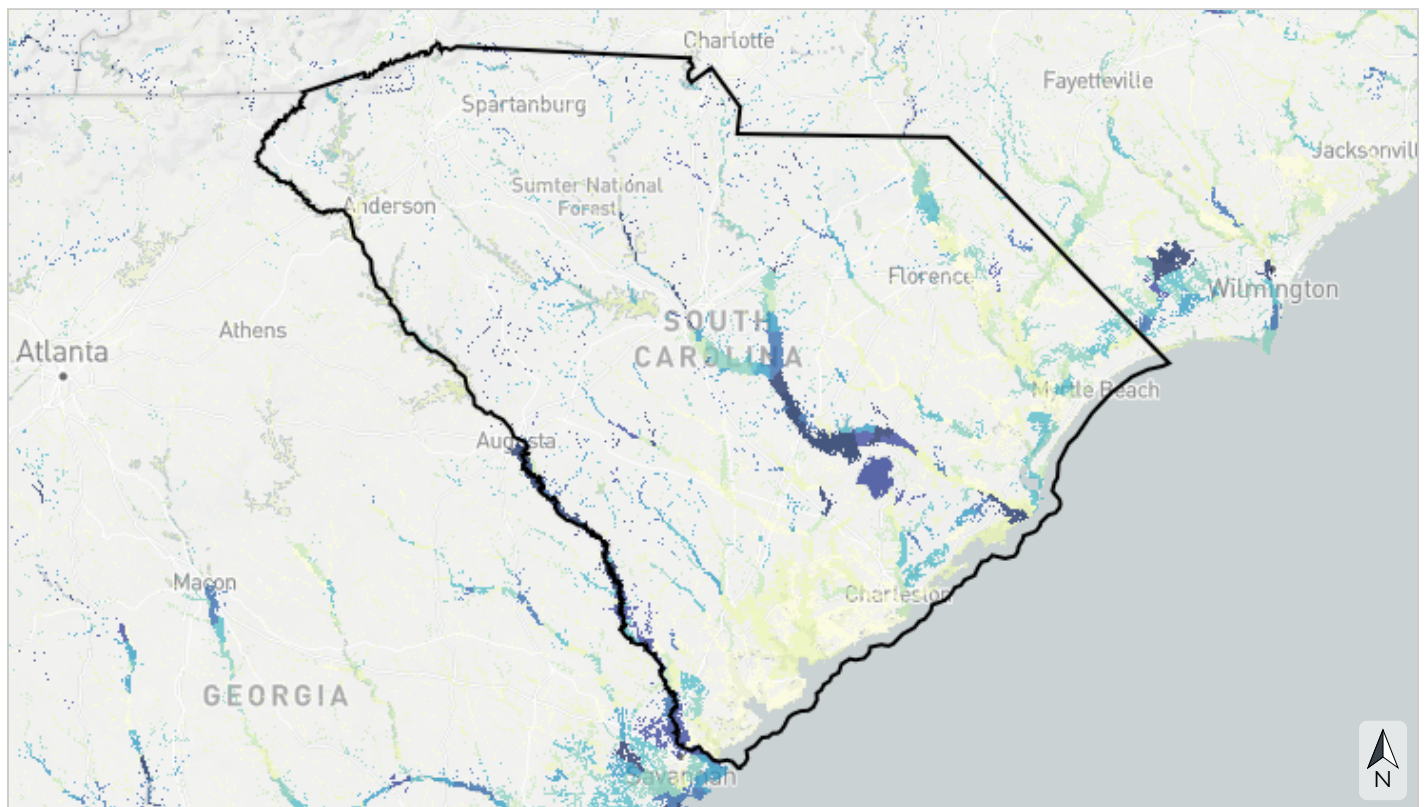
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Freshwater

Imperiled aquatic species

This indicator measures the number of aquatic animal Species of Greatest Conservation Need (SGCN) observed within each 12-digit HUC subwatershed, including fish, mussels, snails, crayfish, and amphibians. SGCN are identified in State Wildlife Action Plans as most in need of conservation action. This indicator captures patterns of rare and endemic species diversity not well-represented by other freshwater aquatic indicators. It originates from state Natural Heritage Program data collected by the Southeast Aquatic Resources Partnership and applies to the Environmental Protection Agency's estimated floodplain, which spatially defines areas estimated to be inundated by a 100-year flood, also known as the 1% annual chance flood.



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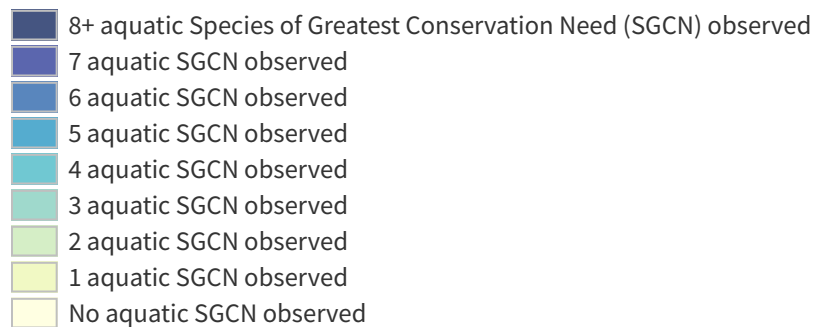


Table 18: Indicator values for imperiled aquatic species in this area. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	8+ aquatic Species of Greatest Conservation Need (SGCN) observed	255,417	1.2%
	7 aquatic SGCN observed	185,175	0.9%
	6 aquatic SGCN observed	128,974	0.6%
	5 aquatic SGCN observed	141,726	0.7%
	4 aquatic SGCN observed	340,961	1.7%
	3 aquatic SGCN observed	363,185	1.8%
	2 aquatic SGCN observed	456,327	2.2%
	1 aquatic SGCN observed	1,022,919	5.0%
↓ Low	No aquatic SGCN observed	1,208,431	5.9%
	<i>Area not evaluated for this indicator</i>	<i>16,391,912</i>	<i>80.0%</i>
	Total area	20,495,027	100%

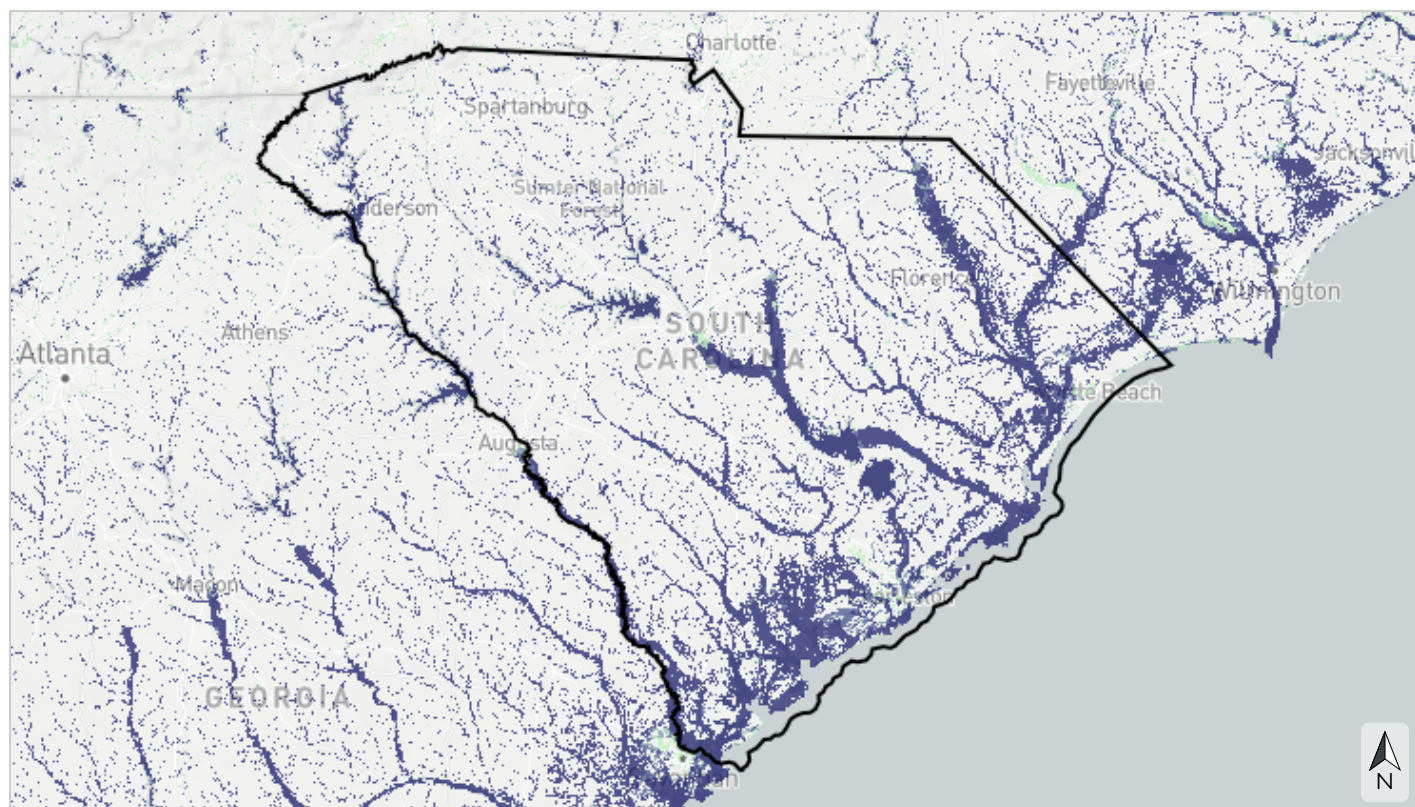
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Freshwater

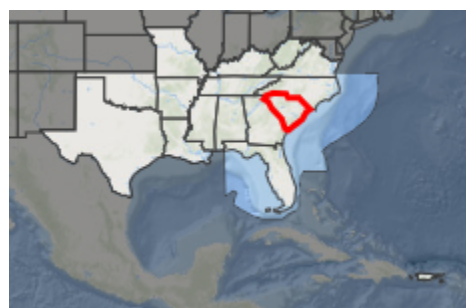
Natural landcover in floodplains

This indicator measures the amount of natural landcover in the estimated floodplain of rivers and streams within each catchment. It assesses the stream channel and its surrounding riparian buffer, measuring the percent of unaltered habitat like forests, wetlands, or open water (rather than agriculture or development). Intact vegetated buffers within the floodplain of rivers and streams provide aquatic habitat, improve water quality, reduce erosion and flooding, recharge groundwater, and more. This indicator originates from the 2019 National Land Cover Database and applies to the Environmental Protection Agency's estimated floodplain, which spatially defines areas estimated to be inundated by a 100-year flood, also known as the 1% annual chance flood.



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- >90% natural habitat within the estimated floodplain, by catchment
- >80-90%
- >70-80%
- >60-70%
- ≤60% natural habitat within the estimated floodplain, by catchment

Table 19: Indicator values for natural landcover in floodplains in this area. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values	Acres	Percent of Area	
↑ High	>90% natural habitat within the estimated floodplain, by catchment	3,585,911	17.5%	↑ In good condition
	>80-90%	282,148	1.4%	
	>70-80%	104,541	0.5%	↓ Not in good condition
	>60-70%	53,562	0.3%	
↓ Low	≤60% natural habitat within the estimated floodplain, by catchment	76,953	0.4%	
	Area not evaluated for this indicator	16,391,912	80.0%	
	Total area	20,495,027	100%	

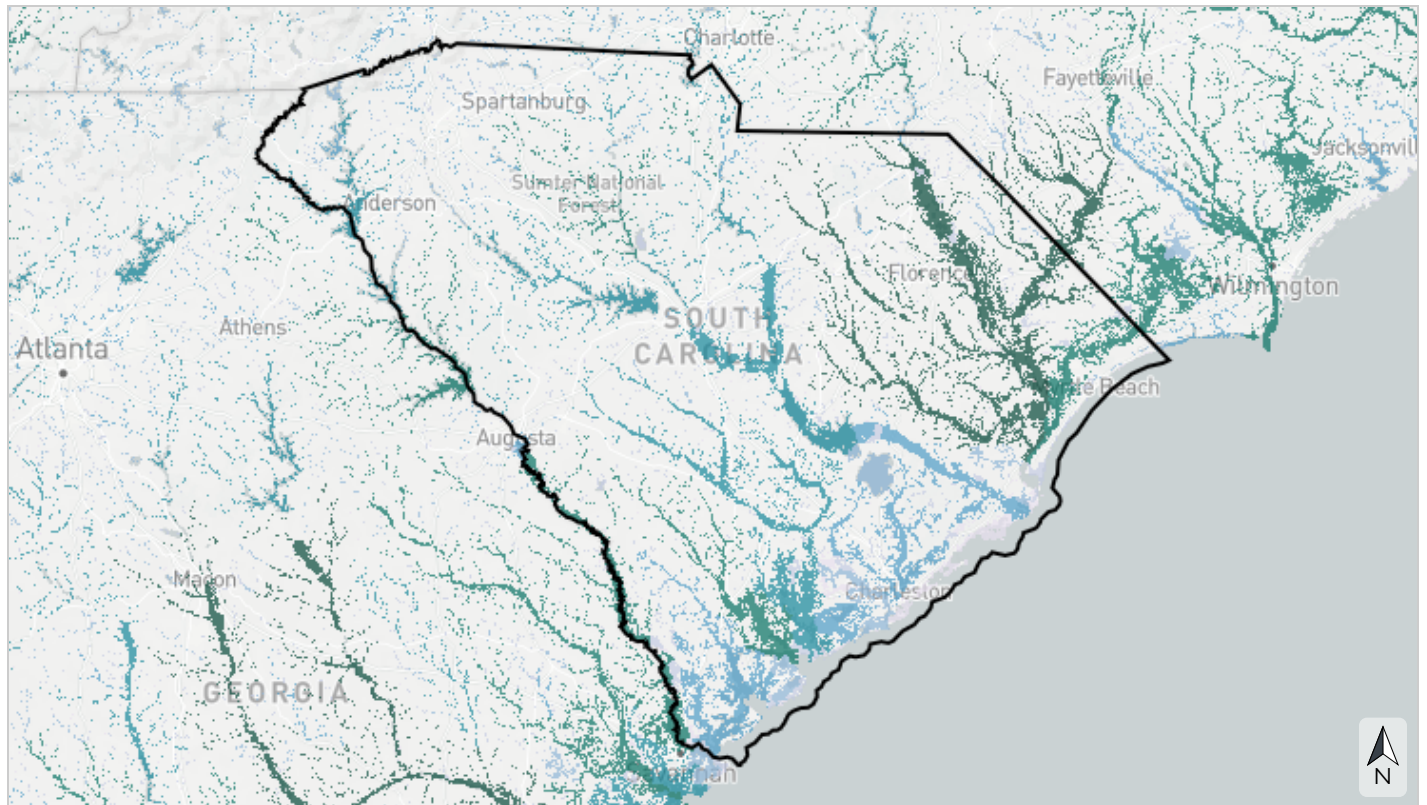
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Freshwater

Network complexity

This indicator depicts the number of different stream size classes in a river network not separated by dams or waterfalls. River networks with a variety of connected stream classes help retain aquatic biodiversity in a changing climate by allowing species to access climate refugia and move between habitats. This indicator originates from the Southeast Aquatic Resources Partnership and applies to the Environmental Protection Agency's estimated floodplain, which spatially defines areas estimated to be inundated by a 100-year flood, also known as the 1% annual chance flood.



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- 7 connected stream classes
- 6 connected stream classes
- 5 connected stream classes
- 4 connected stream classes
- 3 connected stream classes
- 2 connected stream classes
- 1 connected stream class

Table 20: Indicator values for network complexity in this area. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values	Acres	Percent of Area	
↑ High	7 connected stream classes	802,250	3.9%	
	6 connected stream classes	623,377	3.0%	
	5 connected stream classes	1,010,914	4.9%	
	4 connected stream classes	765,355	3.7%	↑ In good condition
	3 connected stream classes	310,324	1.5%	↓ Not in good condition
	2 connected stream classes	301,981	1.5%	
↓ Low	1 connected stream class	176,914	0.9%	
	Area not evaluated for this indicator	16,503,911	80.5%	
	Total area	20,495,027	100%	

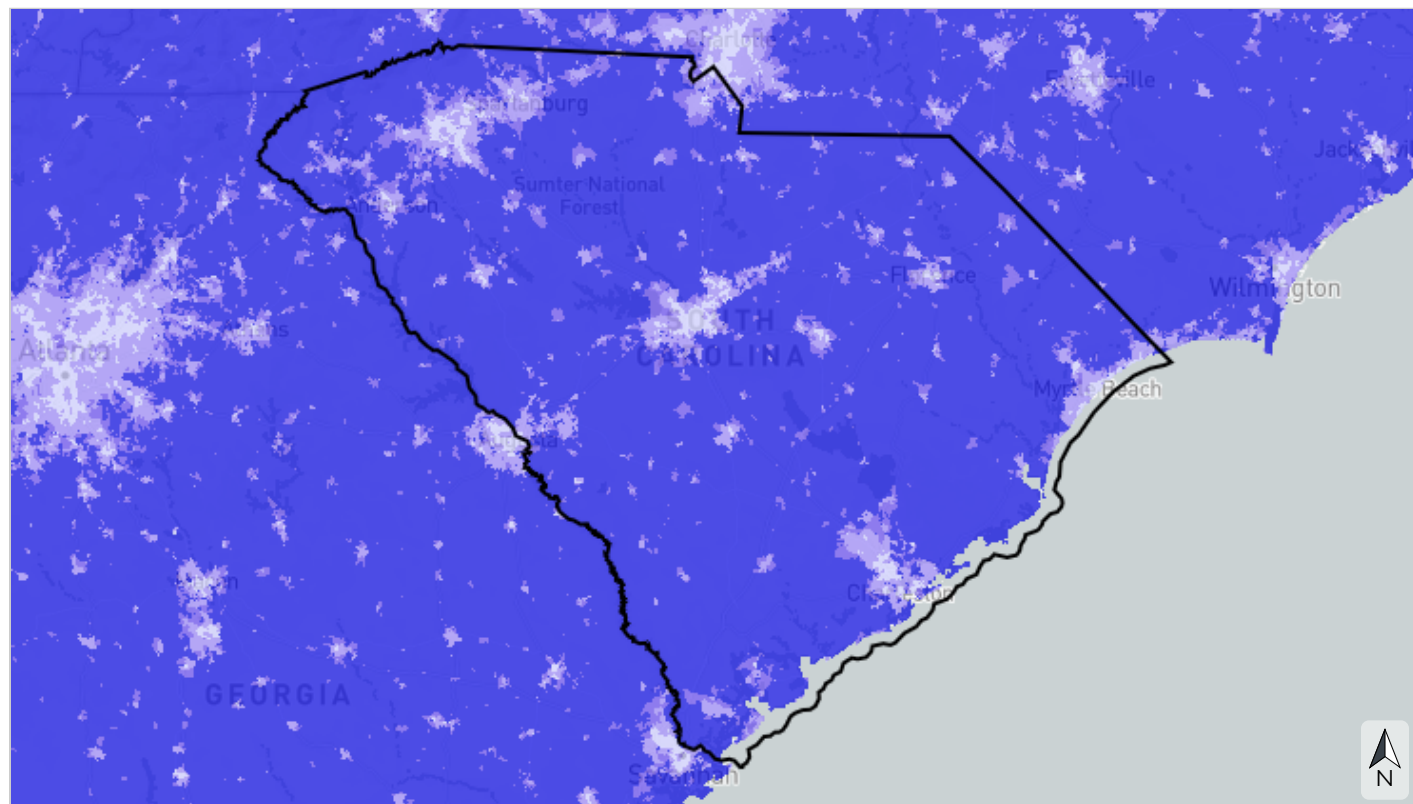
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Freshwater

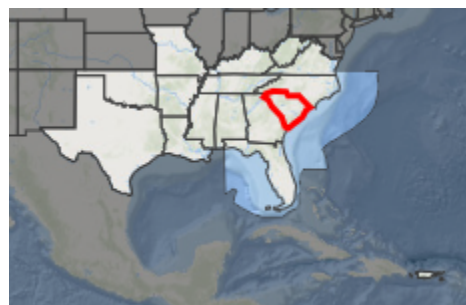
Permeable surface

This indicator measures the average percent of non-impervious cover within each catchment. High levels of impervious surface degrade water quality and alter freshwater flow, impacting both aquatic species communities and ecosystem services for people, like the availability of clean drinking water. This indicator originates from the 2019 National Land Cover Database percent developed impervious layer.



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- >95% of catchment permeable (likely high water quality and supporting most sensitive aquatic species)
- >90-95% of catchment permeable (likely declining water quality and supporting most aquatic species)
- >70-90% of catchment permeable (likely degraded water quality and not supporting many aquatic species)
- ≤70% of catchment permeable (likely degraded instream flow, water quality, and aquatic species communities)

Table 21: Indicator values for permeable surface in this area. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values	Acres	Percent of Area	
↑ High	>95% of catchment permeable (likely high water quality and supporting most sensitive aquatic species)	17,210,515	84.0%	↑ In good condition
	>90-95% of catchment permeable (likely declining water quality and supporting most aquatic species)	1,204,345	5.9%	↓ Not in good condition
	>70-90% of catchment permeable (likely degraded water quality and not supporting many aquatic species)	1,197,353	5.8%	
↓ Low	≤70% of catchment permeable (likely degraded instream flow, water quality, and aquatic species communities)	262,947	1.3%	
	<i>Area not evaluated for this indicator</i>	<i>619,868</i>	<i>3.0%</i>	
	Total area	20,495,027	100%	

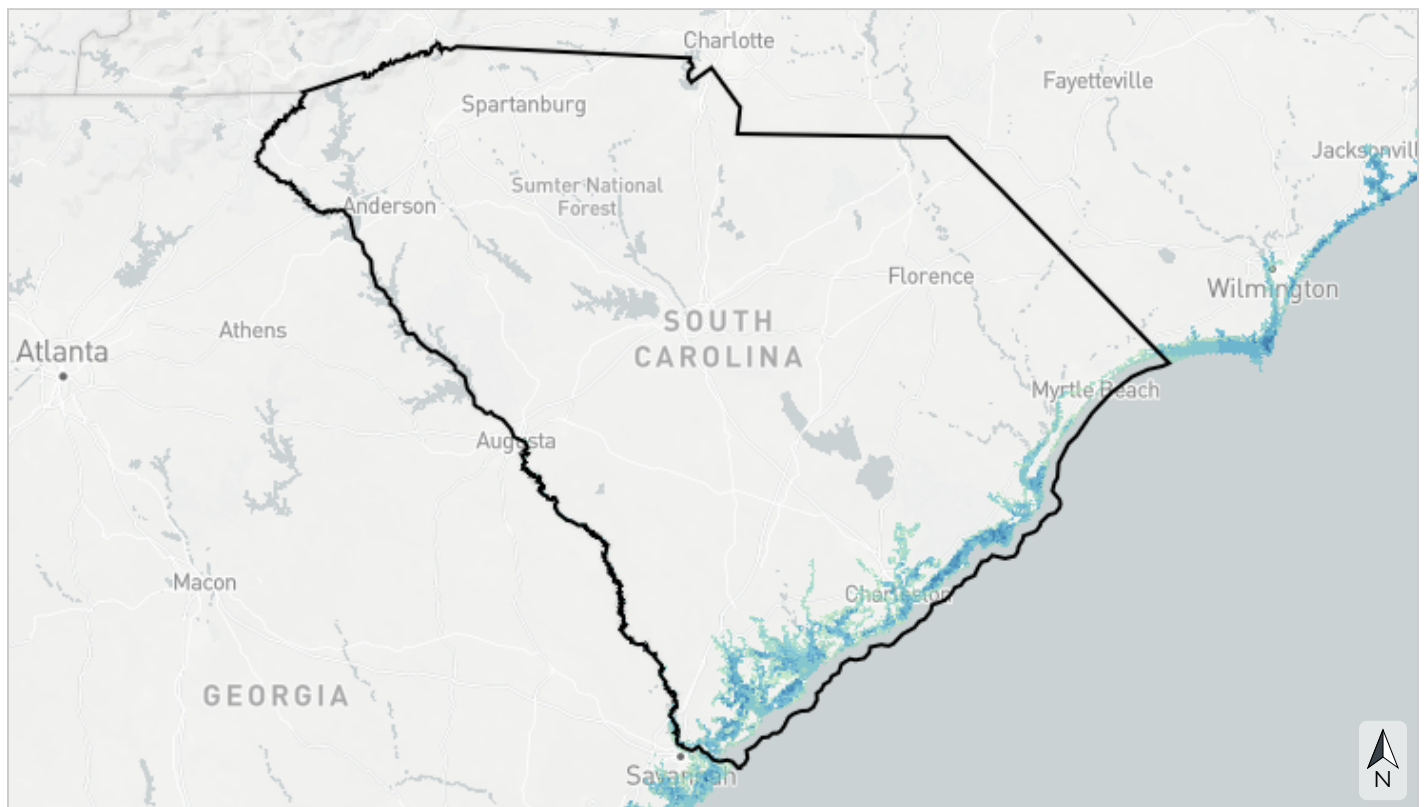
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Coastal & marine

Atlantic estuarine fish habitat

This indicator measures the condition of estuarine fish habitat along the Atlantic coast using metrics of water quality, marsh edges, seagrass and oyster reefs, fragmentation, human development, and more. Areas of excellent fish habitat are already in good condition and face few threats; restoration opportunity areas are doing well in some respects, but restoration projects could significantly improve them; degraded areas of opportunity face many challenges, and restoration projects are unlikely to increase available fish habitat unless particularly large in scope and scale. This indicator originates from the Atlantic Coast Fish Habitat Partnership's fish habitat conservation area mapping and prioritization project.



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43

86

172 miles



- Final score of 80 (areas of excellent fish habitat)
- Final score of 70 (areas of excellent fish habitat)
- Final score of 60 (restoration opportunity areas)
- Final score of 50 (restoration opportunity areas)
- Final score of 40 (restoration opportunity areas)
- Final score of 30 (restoration opportunity areas)
- Final score of 20 (restoration opportunity areas)
- Final score of 10 (degraded areas of opportunity)
- Final score of 0 (degraded areas of opportunity)

Table 22: Indicator values for Atlantic estuarine fish habitat in this area. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values	Acres	Percent of Area	
↑ High	Final score of 80 (areas of excellent fish habitat)	0	0%	
	Final score of 70 (areas of excellent fish habitat)	14,088	<0.1%	↑ In good condition
	Final score of 60 (restoration opportunity areas)	86,604	0.4%	↓ Not in good condition
	Final score of 50 (restoration opportunity areas)	197,644	1.0%	
	Final score of 40 (restoration opportunity areas)	283,536	1.4%	
	Final score of 30 (restoration opportunity areas)	315,794	1.5%	
	Final score of 20 (restoration opportunity areas)	135,229	0.7%	
	Final score of 10 (degraded areas of opportunity)	23,966	0.1%	
↓ Low	Final score of 0 (degraded areas of opportunity)	491	<0.1%	
	Area not evaluated for this indicator	19,437,673	94.8%	
	Total area	20,495,027	100%	

To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



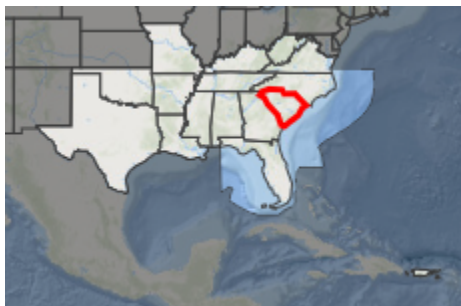
Coastal & marine

Coastal shoreline condition

This indicator assesses shoreline condition based on the presence of hardened structures like jetties, groins, and riprap, as well as other human development. By restricting the natural movement of sediment, shoreline armoring increases erosion, prevents the inland migration of coastal ecosystems in response to sea-level rise, and degrades habitat for birds, sea turtles, fish, plants, and other species both on and offshore. Natural shorelines in harder-to-develop coastal areas receive the highest shoreline condition scores, while hardened shorelines receive the lowest scores. This indicator originates from the National Oceanic and Atmospheric Administration's Environmental Sensitivity Index dataset.

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- Natural and harder to develop
- Natural
- Partially armored and harder to develop
- Partially armored
- Armored

Table 23: Indicator values for coastal shoreline condition in this area. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values	Acres	Percent of Area	
↑ High	Natural and harder to develop	26,728	0.1%	
	Natural	82,272	0.4%	↑ In good condition
	Partially armored and harder to develop	53	<0.1%	↓ Not in good condition
	Partially armored	1,141	<0.1%	
↓ Low	Armored	1,737	<0.1%	
	Area not evaluated for this indicator	20,383,096	99.5%	
	Total area	20,495,027	100%	

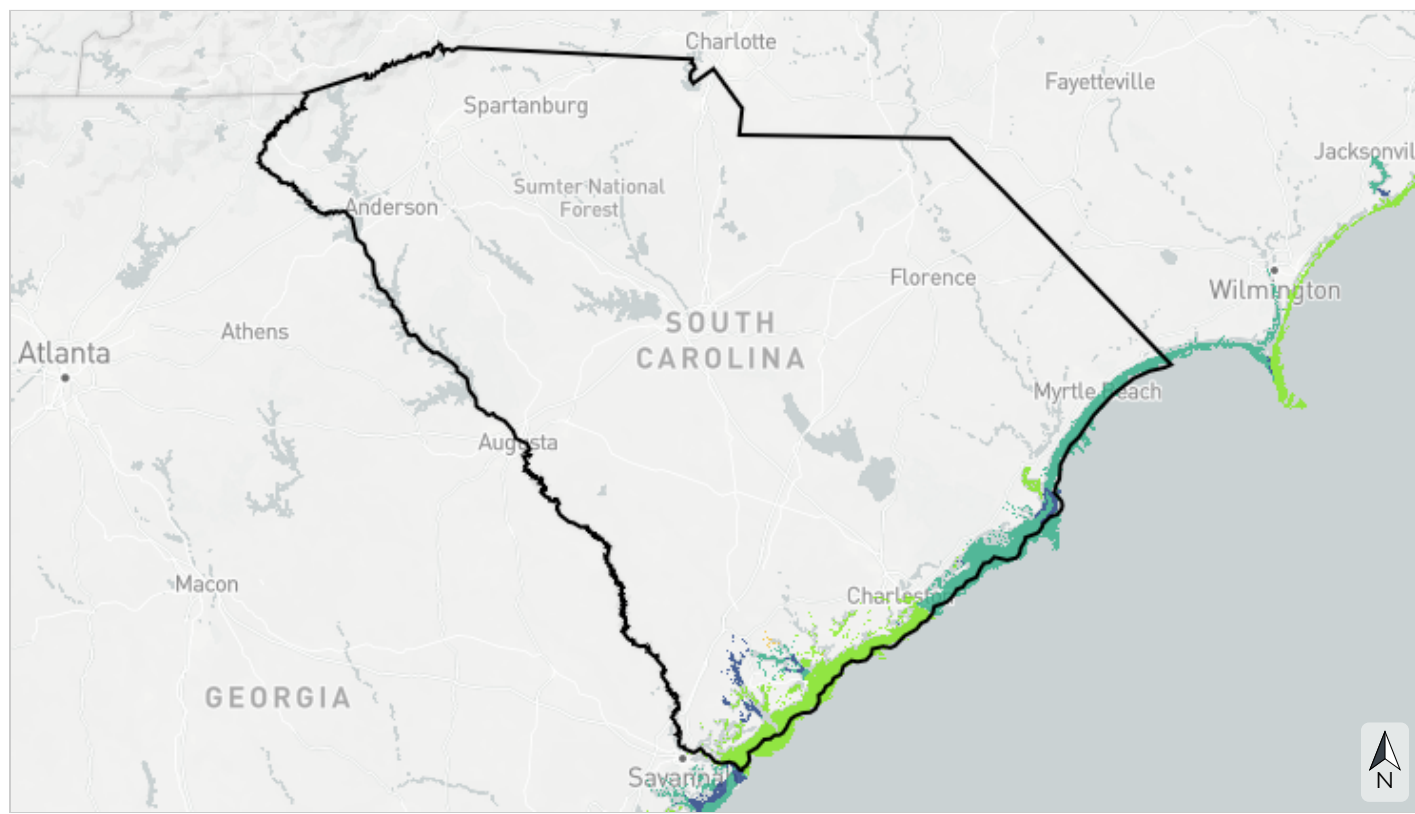
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



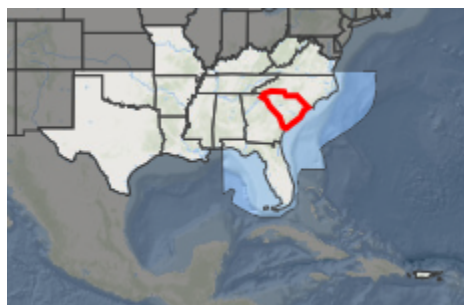
Coastal & marine

Estuarine coastal condition

This indicator combines measures of water quality, sediment quality, contaminants in fish tissue, and benthic community condition to create an overall index of coastal estuarine condition. Estuaries serve as important nursery habitat for wildlife, including many species of fish and shellfish eaten as seafood. They also improve water quality by filtering out sediments and pollutants, provide recreational opportunities, and support coastal economies. This indicator originates from the Environmental Protection Agency's National Coastal Condition Assessment data.

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- Good
- Good to fair
- Fair
- Fair to poor
- Poor

Table 24: Indicator values for estuarine coastal condition in this area. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

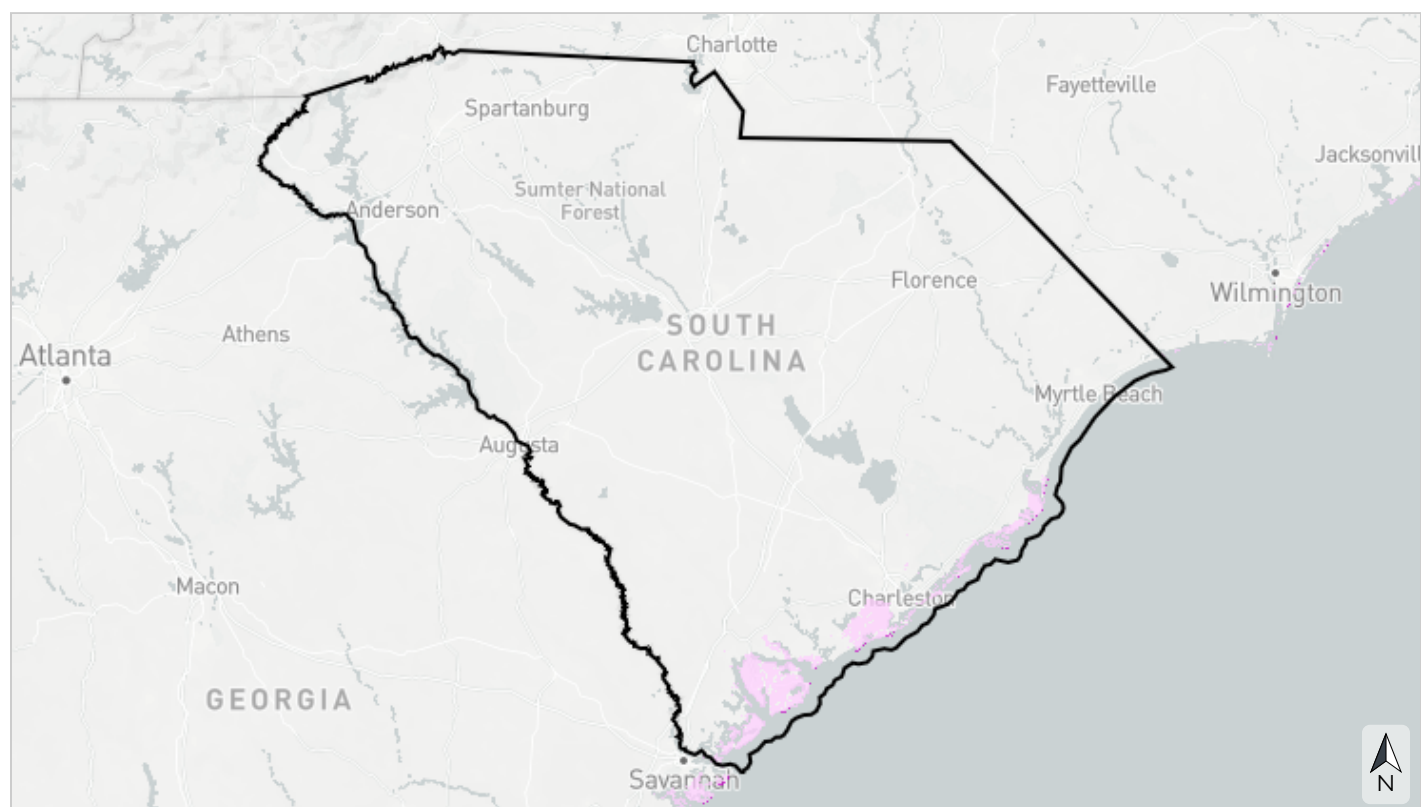
	Indicator Values	Acres	Percent of Area	
↑ High	Good	51,921	0.3%	
	Good to fair	314,947	1.5%	↑ In good condition
	Fair	337,272	1.6%	↓ Not in good condition
	Fair to poor	2,249	<0.1%	
↓ Low	Poor	444	<0.1%	
	Area not evaluated for this indicator	19,788,194	96.6%	
	Total area	20,495,027	100%	

To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Coastal & marine Islands

This indicator represents important habitat for island-dependent species across the Southeast. Because the isolation of islands can make them ecologically unique and protect them from disturbance and mainland predators, they often serve as important habitat for many species of mammals, plants, and insects, as well as breeding coastal birds and sea turtles. The highest scores go to island critical habitat for six threatened and endangered animal and plant species: piping plover, loggerhead sea turtle, Cape Sable thoroughwort, Florida semaphore cactus, silver rice rat, and Bartram's hairstreak butterfly. This indicator originates from U.S. Fish and Wildlife Service critical habitat data and island boundaries from the U.S. Geological Survey and Esri.



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- Island critical habitat for any of six threatened and endangered species (piping plover, loggerhead sea turtle, Cape Sable thoroughwort, Florida semaphore cactus, silver rice rat, or Bartram's hairstreak butterfly)
- Island

Table 25: Indicator values for islands in this area. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	Island critical habitat for any of six threatened and endangered species (piping plover, loggerhead sea turtle, Cape Sable thoroughwort, Florida semaphore cactus, silver rice rat, or Bartram's hairstreak butterfly)	5,612	<0.1%
↓ Low	Island	391,010	1.9%
	Area not evaluated for this indicator	20,098,405	98.1%
	Total area	20,495,027	100%

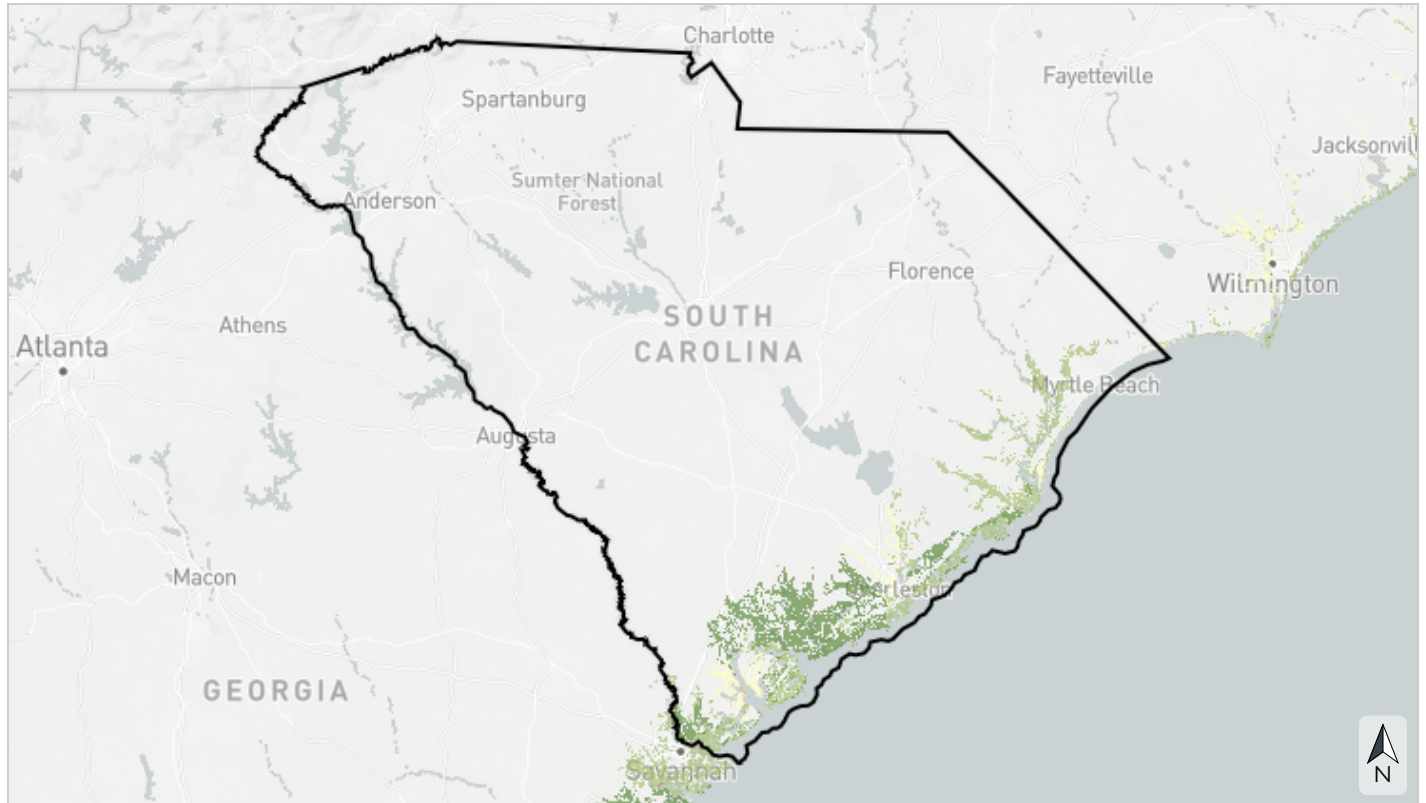
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Coastal & marine

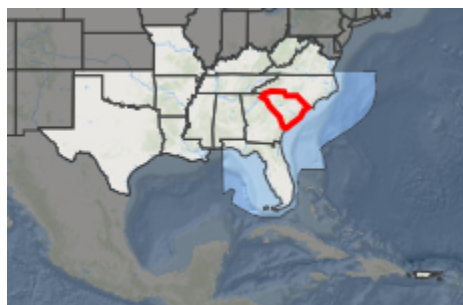
Resilient coastal sites

This indicator depicts the capacity of coastal habitats to migrate to adjacent lowlands in order to sustain biodiversity and natural services under increasing inundation from sea-level rise. It is based on the physical and condition characteristics of current tidal complexes, their predicted migration space, and surrounding buffer areas. These characteristics include marsh complex size, shared edge with migration space, sediment balance, water quality, natural landcover, landform diversity, and many others. This indicator originates from The Nature Conservancy's Resilient Coastal Sites project.



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- Most resilient
- More resilient
- Slightly more resilient
- Average/median resilience
- Slightly less resilient
- Less resilient
- Least resilient

Table 26: Indicator values for resilient coastal sites in this area. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	Most resilient	0	0%
	More resilient	470,185	2.3%
	Slightly more resilient	449,879	2.2%
	Average/median resilience	124,782	0.6%
	Slightly less resilient	2,906	<0.1%
	Less resilient	1,482	<0.1%
↓ Low	Least resilient	270	<0.1%
	Area not evaluated for this indicator	19,445,522	94.9%
	Total area	20,495,027	100%

To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



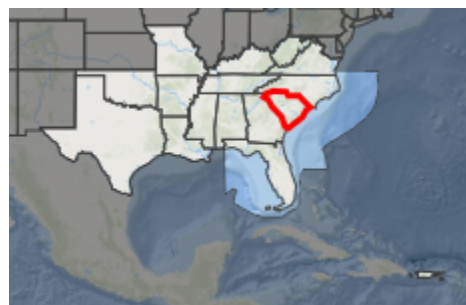
Coastal & marine

South Atlantic beach birds

This indicator is an index of habitat suitability for four shorebird species (American oystercatcher, Wilson's plover, least tern, piping plover) in the South Atlantic, based on observed abundance. The relative use of beach habitat by shorebirds for nesting, foraging, and breeding is an indicator of beach health and quality. It originates from data collected by waterbird biologists from the U.S. Fish and Wildlife Service and state wildlife agencies in Florida, Georgia, South Carolina and North Carolina.



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- >80th percentile of importance for bird index species (American oystercatcher, Wilson's plover, least tern, and piping plover)
- >60th-80th percentile of importance
- >40th-60th percentile of importance
- >20th-40th percentile of importance
- ≤20th percentile of importance for bird index species

Table 27: Indicator values for South Atlantic beach birds in this area. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	>80th percentile of importance for bird index species (American oystercatcher, Wilson's plover, least tern, and piping plover)	4,977	<0.1%
	>60th-80th percentile of importance	4,596	<0.1%
	>40th-60th percentile of importance	6,495	<0.1%
	>20th-40th percentile of importance	8,405	<0.1%
↓ Low	≤20th percentile of importance for bird index species	5,502	<0.1%
	Area not evaluated for this indicator	20,465,053	99.9%
	Total area	20,495,027	100%

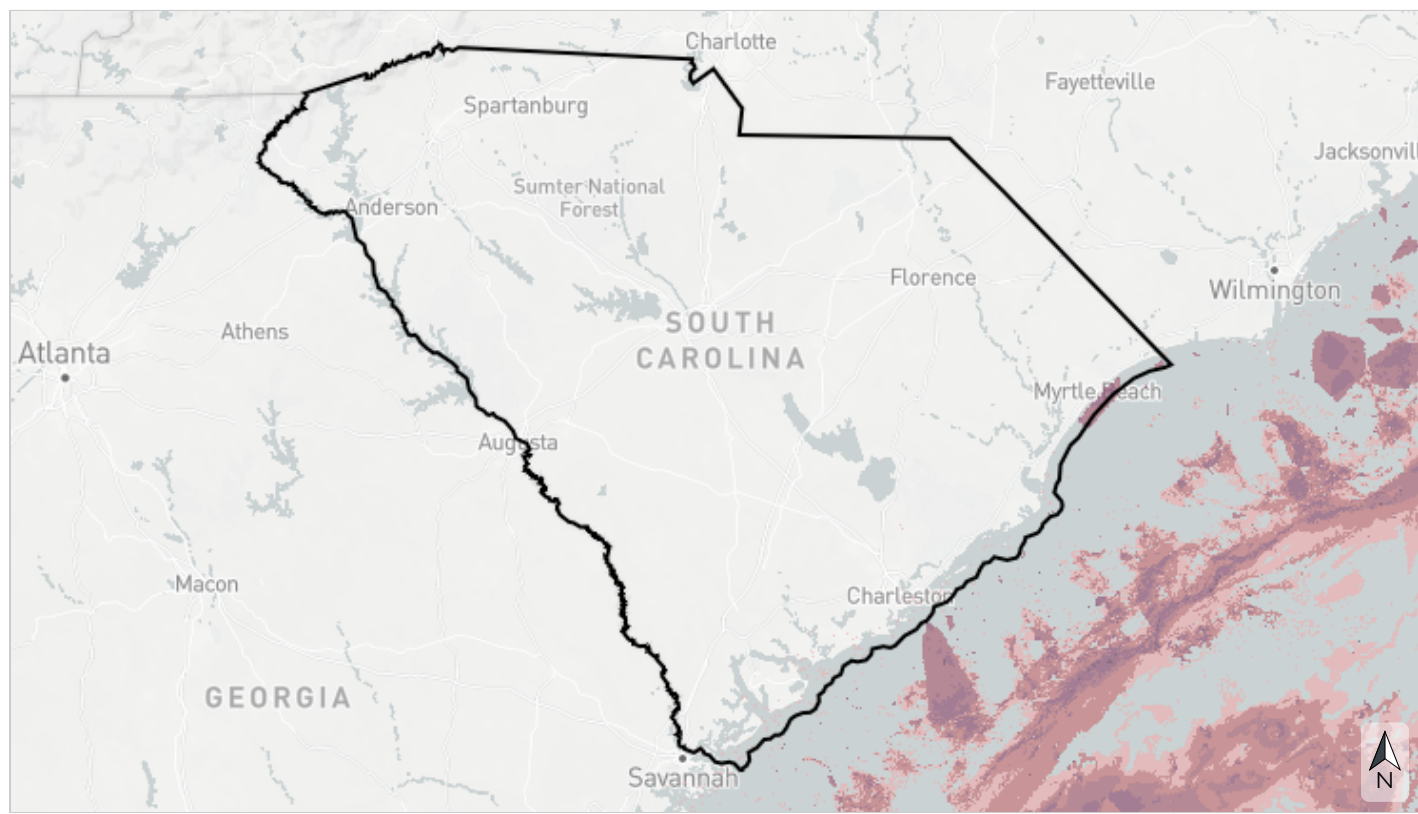
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



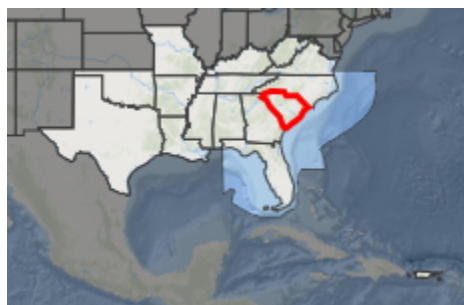
Coastal & marine

South Atlantic hardbottom & deep-sea coral

This indicator measures known and predicted suitable locations of hardbottom habitat and deep-sea corals. Hardbottom provides an anchor for important seafloor habitats such as deep-sea corals, plants, and sponges. Hardbottom and associated deep-sea coral communities provide valuable habitat structure that supports a wide range of invertebrate and fish species. This indicator combines multiple datasets from the National Oceanic and Atmospheric Administration and The Nature Conservancy.

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- Observed coral or hardbottom
- Very high suitability for coral or hardbottom
- High suitability for coral or hardbottom
- Medium suitability for coral or hardbottom
- Low suitability for coral or hardbottom

Table 28: Indicator values for South Atlantic hardbottom & deep-sea coral in this area. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	Observed coral or hardbottom	79	<0.1%
	Very high suitability for coral or hardbottom	18,228	<0.1%
	High suitability for coral or hardbottom	18,199	<0.1%
	Medium suitability for coral or hardbottom	2	<0.1%
↓ Low	Low suitability for coral or hardbottom	41,199	0.2%
	Area not evaluated for this indicator	20,417,320	99.6%
	Total area	20,495,027	100%

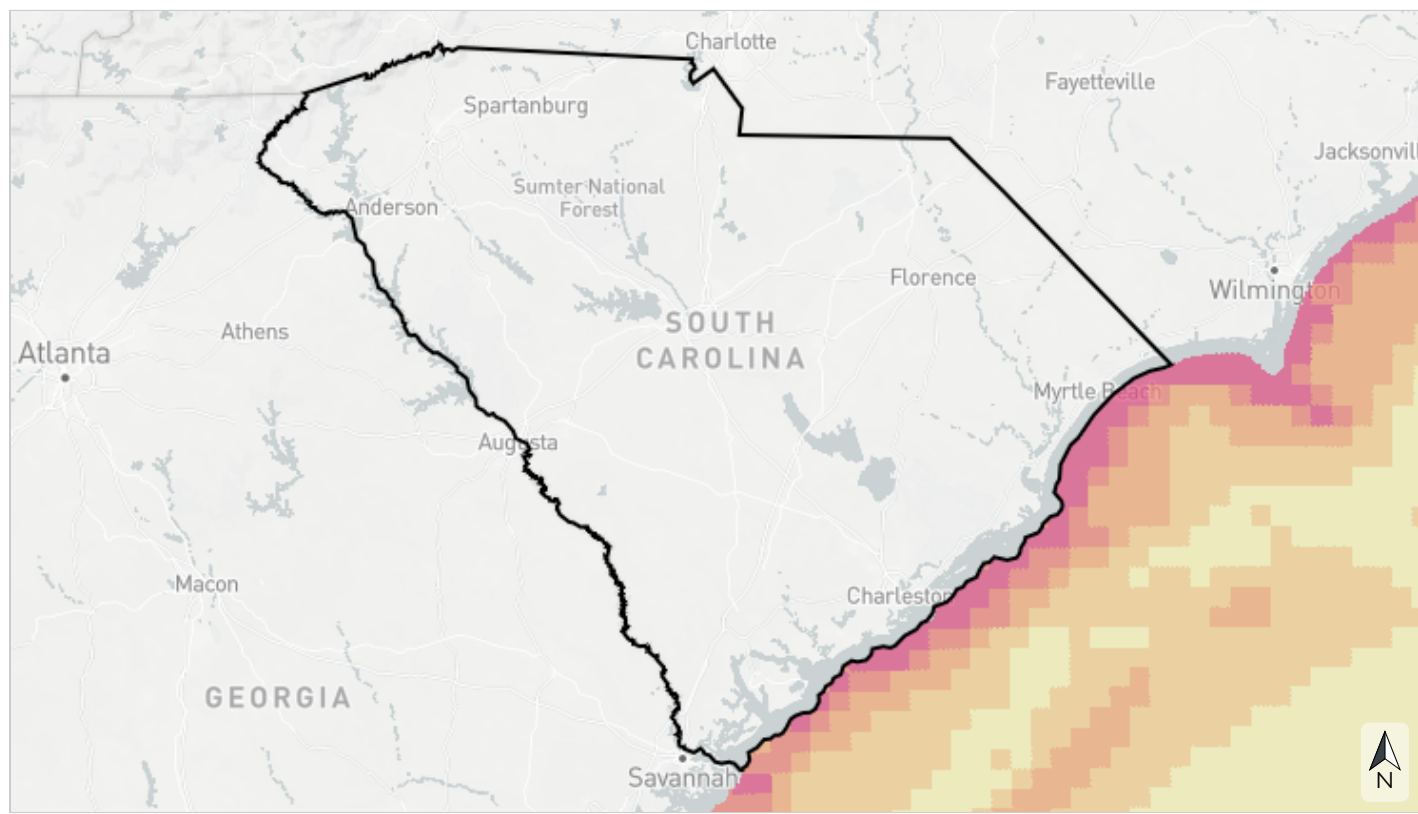
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



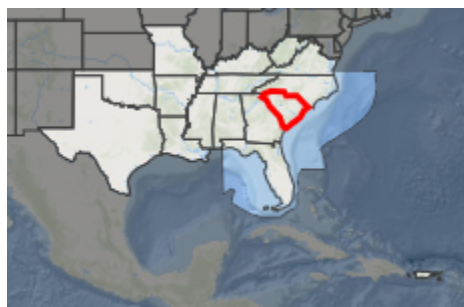
Coastal & marine

South Atlantic marine mammals

This indicator is a continuous index of dolphin and whale density based on monthly density predictions for ten species of cetaceans and yearly density predictions for three rarer cetacean species (monthly: North Atlantic right whale, sperm whale, Sei whale, humpback whale, fin whale, bottlenose dolphin, short-beaked common dolphin, Risso's dolphin, harbor porpoise, and Atlantic white-sided dolphin; yearly: pilot whale, beaked whale, striped dolphin). This indicator originates from Duke Marine Lab marine mammal models.

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- >80th percentile of importance for marine mammal index species
- >60th-80th percentile of importance
- >40th-60th percentile of importance
- >20th-40th percentile of importance
- ≤20th percentile of importance

Table 29: Indicator values for South Atlantic marine mammals in this area. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	>80th percentile of importance for marine mammal index species	4,877	<0.1%
	>60th-80th percentile of importance	285	<0.1%
	>40th-60th percentile of importance	173	<0.1%
	>20th-40th percentile of importance	0	0%
↓ Low	≤20th percentile of importance	0	0%
	Area not evaluated for this indicator	20,489,693	100.0%
	Total area	20,495,027	100%

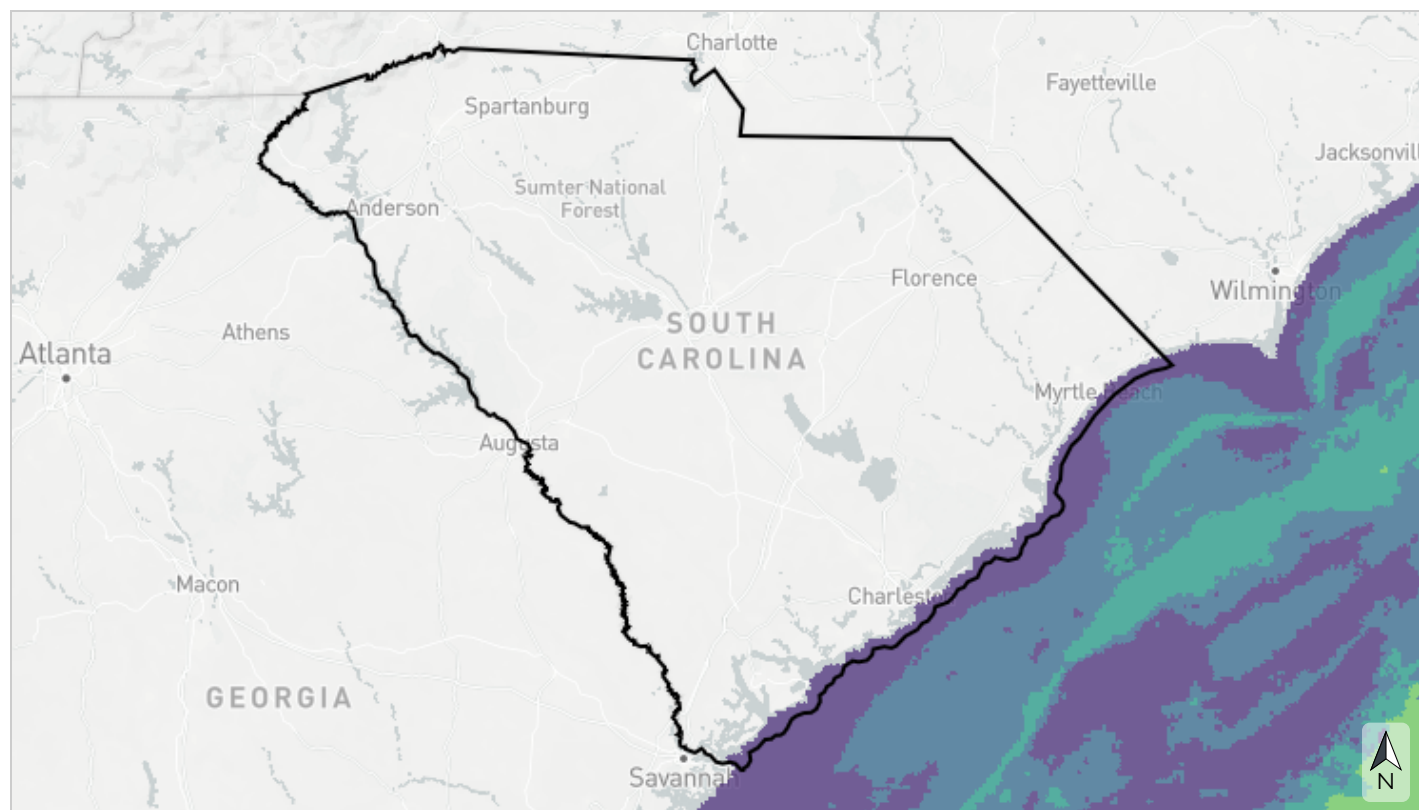
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Coastal & marine

South Atlantic marine birds

This indicator is a continuous index of highly productive areas for birds that feed exclusively or mainly at sea. It uses seasonal predictions of relative abundance for seventeen species of marine birds (Audubon's shearwater, white-winged scoter, black scoter, horned grebe, band-rumped storm-petrel, Bermuda petrel, Manx shearwater, black-capped petrel, Northern gannet, Bonaparte's gull, common loon, red-throated loon, Cory's shearwater, royal tern, great shearwater, sooty shearwater, common tern). This indicator originates from Marine-life Data and Analysis Team marine bird models.



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- >80th percentile of importance for marine bird index species
- >60th-80th percentile of importance
- >40th-60th percentile of importance
- >20th-40th percentile of importance
- ≤20th percentile of importance

Table 30: Indicator values for South Atlantic marine birds in this area. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	>80th percentile of importance for marine bird index species	459,369	2.2%
	>60th-80th percentile of importance	0	0%
	>40th-60th percentile of importance	0	0%
	>20th-40th percentile of importance	0	0%
↓ Low	≤20th percentile of importance	0	0%
	Area not evaluated for this indicator	20,035,658	97.8%
	Total area	20,495,027	100%

To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Coastal & marine

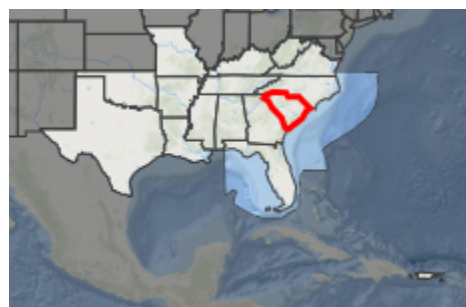
South Atlantic maritime forest

This indicator depicts maritime forest currently present in the South Atlantic. Since maritime forest has been substantially reduced from its historic extent, protecting the remaining acreage of existing maritime forest is important. This indicator originates from Landfire Existing Vegetation Type data.



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Maritime forest

Table 31: Indicator values for South Atlantic maritime forest in this area. A good condition threshold is not yet defined for this indicator.

Indicator Values		Acres	Percent of Area
↑ High	Maritime forest	39,571	0.2%
	Area not evaluated for this indicator	20,455,456	99.8%
	Total area	20,495,027	100%

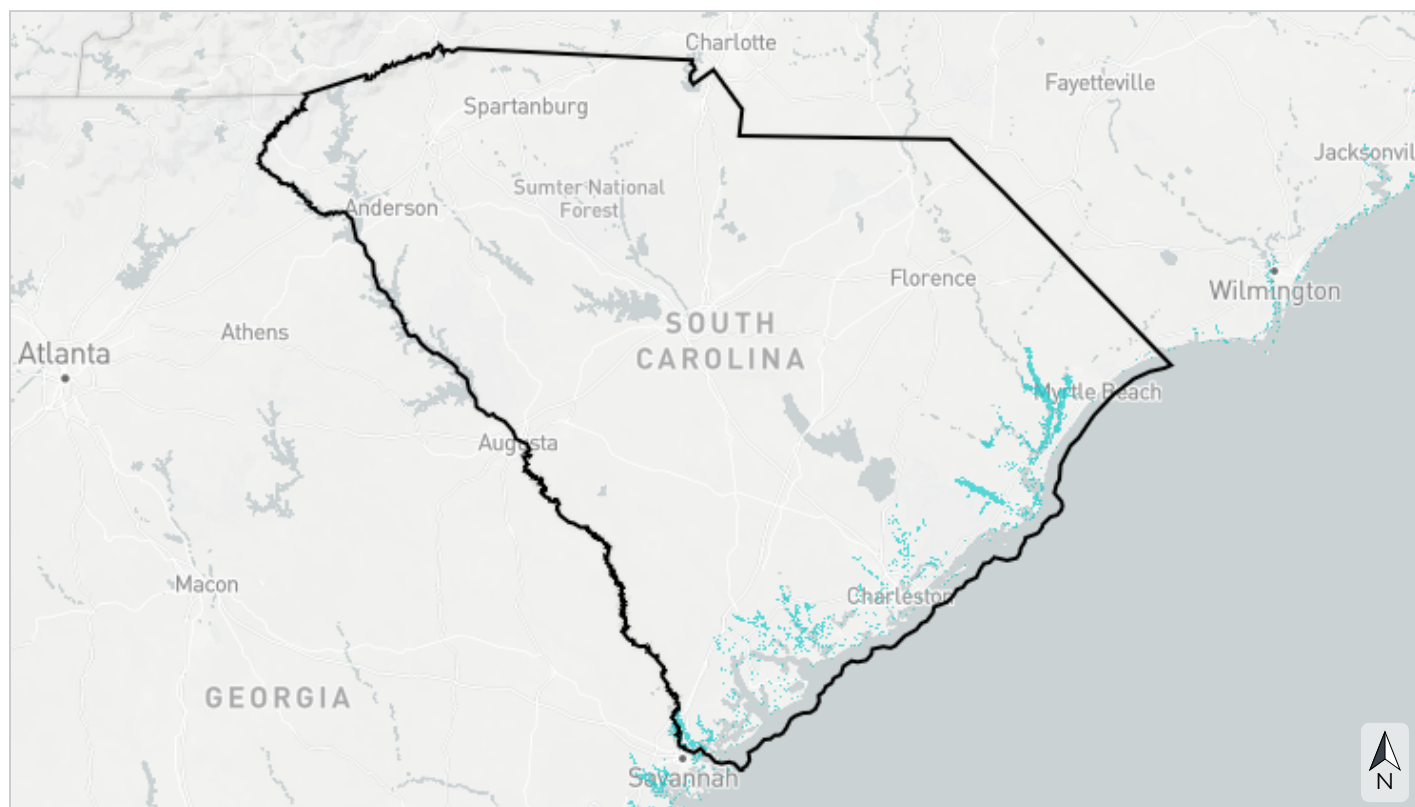
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Coastal & marine

Stable coastal wetlands

This indicator uses remote sensing to calculate the unvegetated-vegetated ratio of tidal wetlands, which compares how much of a wetland is not covered by plants (e.g., sediment, rocks, open water) to how much is covered by plants. This ratio, and how it changes over time, is a good surrogate for salt marsh degradation processes like sediment loss and conversion to open water. It helps differentiate between stable marshes that are more resilient, and declining marshes that are more vulnerable to threats like sea-level rise, erosion, and coastal development. This indicator originates from a U.S. Geological Survey project on an unvegetated to vegetated ratio for coastal wetlands.

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 Stable coastal wetlands

Table 32: Indicator values for stable coastal wetlands in this area. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values	Acres	Percent of Area	
↑ High	Stable coastal wetlands	295,408	1.4%	↑ In good condition
	Area not evaluated for this indicator	20,199,620	98.6%	
	Total area	20,495,027	100%	

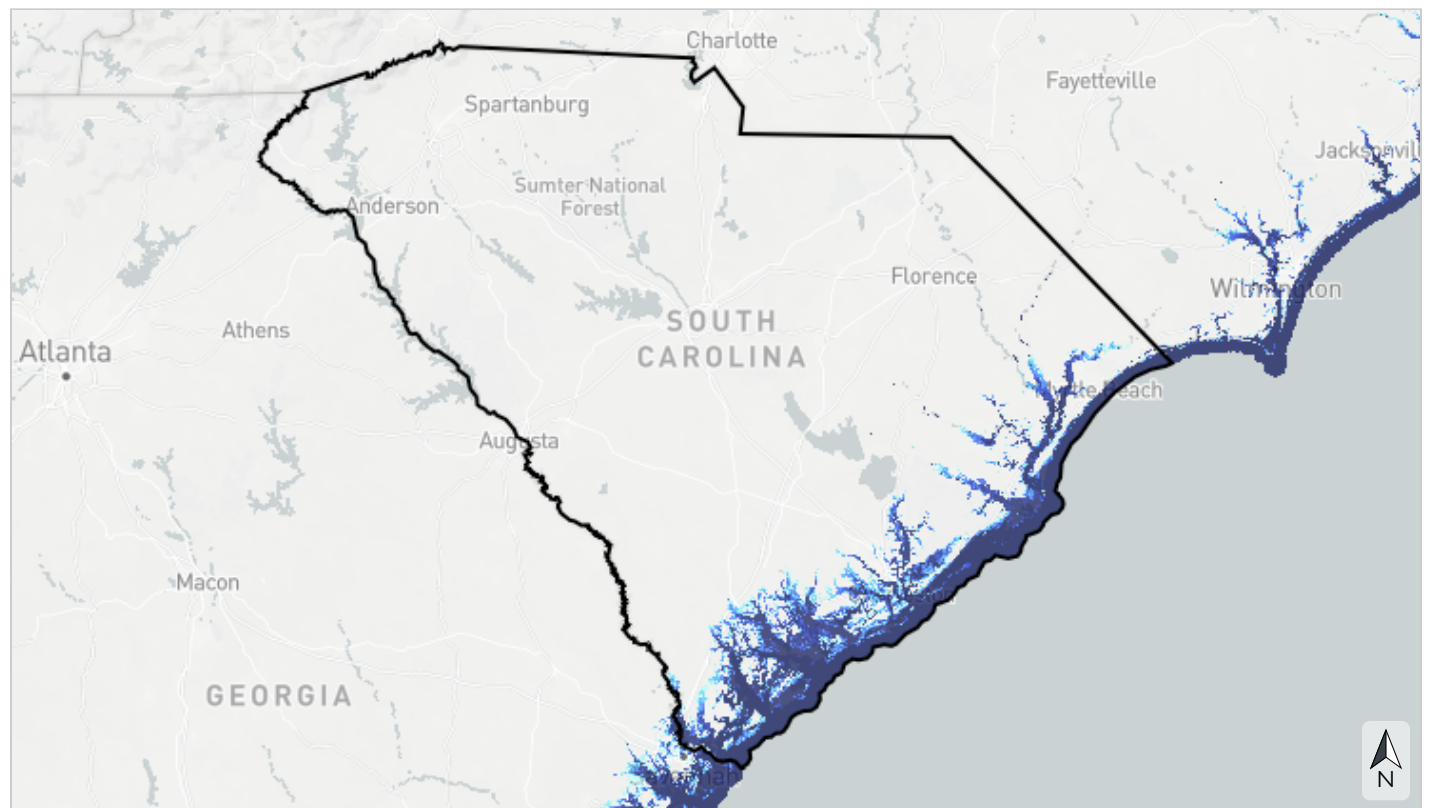
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).

Threats

Sea-level rise

NOAA's sea-level rise (SLR) inundation models represent areas likely to experience flooding at high tide based on each foot of inundation depth above current levels. These inundation depth models are not linked to a future timeframe; see the projections below. NOAA calculates the inundation depth at "mean higher high water", or the average highest daily tide. The area covered by each inundation depth level includes areas projected to be inundated at lower levels. For example, areas inundated by 4 ft of SLR also includes areas inundated by 3 ft, 2 ft, 1 ft, and current inundation levels.

To explore additional SLR information, please see NOAA's [Sea Level Rise Viewer](#).



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Flooding extent by projected sea-level rise (ft)



Table 33: Extent of flooding by projected average highest daily tide due to sea level rise in this area. Values from the [NOAA sea-level rise inundation data](#).

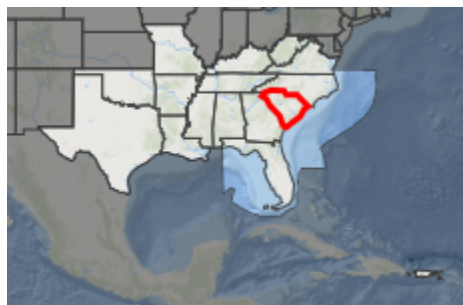
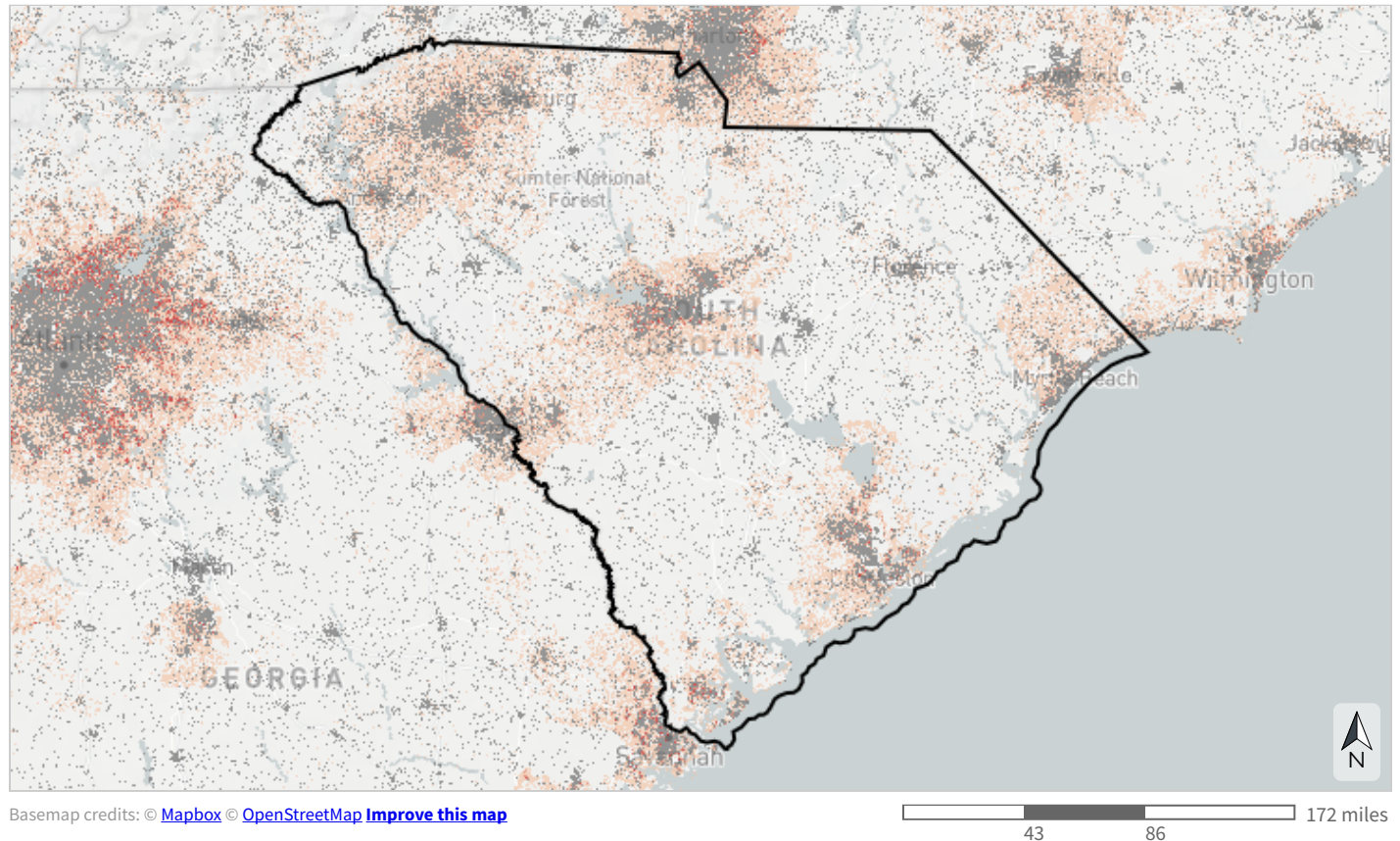
Feet of sea-level rise	Acres	Percent of Area
0 feet	1,245,818	6.1%
1 foot	1,384,978	6.8%
2 feet	1,459,377	7.1%
3 feet	1,534,875	7.5%
4 feet	1,614,821	7.9%
5 feet	1,695,974	8.3%
6 feet	1,776,110	8.7%
7 feet	1,854,169	9.0%
8 feet	1,929,336	9.4%
9 feet	2,008,621	9.8%
10 feet	2,088,626	10.2%
Not projected to be inundated by up to 10 feet	4,967,754	24.2%
Sea-level rise unlikely to be a threat (inland counties)	13,438,646	65.6%
Total area	20,495,027	100%

Table 34: Projected sea level rise by decade in this area. Values are based on area-weighted averages of decadal projections for 1-degree grid cells that overlap this area based on [NOAA's 2022 Sea Level Rise Report](#). 2060 corresponds to the [SECAS goal](#): a 10% or greater improvement in the health, function, and connectivity of Southeastern ecosystems by 2060.

SLR Scenario	2020 (ft)	2030 (ft)	2040 (ft)	2050 (ft)	2060 (ft)	2070 (ft)	2080 (ft)	2090 (ft)	2100 (ft)
Low	0.36	0.56	0.77	0.97	1.1	1.2	1.3	1.4	1.6
Intermediate-low	0.38	0.61	0.86	1.1	1.3	1.5	1.8	2	2.2
Intermediate	0.39	0.64	0.91	1.2	1.5	1.9	2.4	3	3.7
Intermediate-high	0.39	0.68	1	1.4	1.9	2.6	3.3	4.2	5.1
High	0.4	0.69	1	1.6	2.3	3.2	4.3	5.5	6.7

Urban growth

The FUTURES urban growth model predicts the likelihood that an area will urbanize at every decade from 2020 to 2100. Developed areas from the 2019 National Landcover Database serve as the baseline for current urban areas. The model simulates landscape change based on trends in population growth, local development suitability factors, and an urban patch-growing algorithm. It considers environmental drivers like distance to floodplain, slope, and available infrastructure, and even socio-economic status. The probability of urbanization for each area reflects how many times it urbanized out of 50 model runs.



Probability of urbanization by 2060

- Urban in 2019
- Very high likelihood of urbanization (>50% probability)
- High likelihood of urbanization (25 - 50% probability)
- Moderate likelihood of urbanization (2 - 25% probability)
- Not likely to urbanize

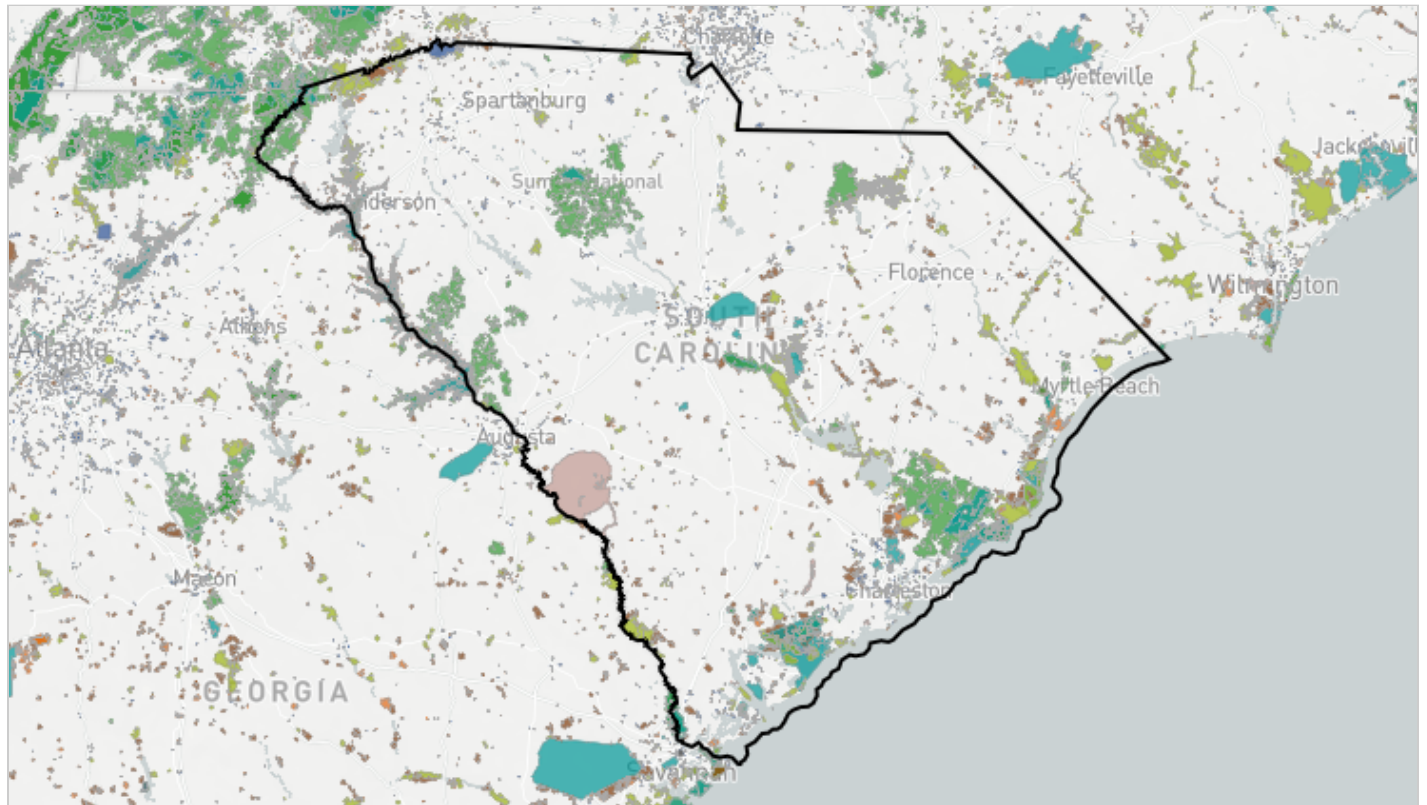
11.2% of this area is already urban in 2019, and an additional 16.7% has at least a moderate probability of urbanizing by 2060.

Table 35: Extent of projected urbanization by decade in this area. Values from the FUTURES urban growth model. Data provided by the [Center for Geospatial Analytics](#), NC State University. 2060 corresponds to the [SECAS goal](#): a 10% or greater improvement in the health, function, and connectivity of Southeastern ecosystems by 2060.

Decade	Acres	Percent of Area
Urban in 2019	2,287,981	11.2%
2020 projected extent	2,299,299	11.2%
2030 projected extent	2,367,903	11.6%
2040 projected extent	2,423,936	11.8%
2050 projected extent	2,469,058	12.0%
2060 projected extent	2,507,606	12.2%
2070 projected extent	2,542,223	12.4%
2080 projected extent	2,569,406	12.5%
2090 projected extent	2,587,010	12.6%
2100 projected extent	2,596,935	12.7%
Not projected to urbanize by 2100	14,245,339	69.5%
Total area	20,495,027	100%

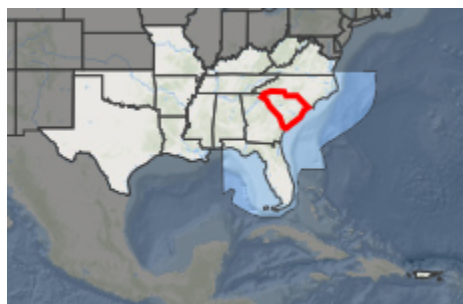
Ownership and Partners

Conserved lands ownership



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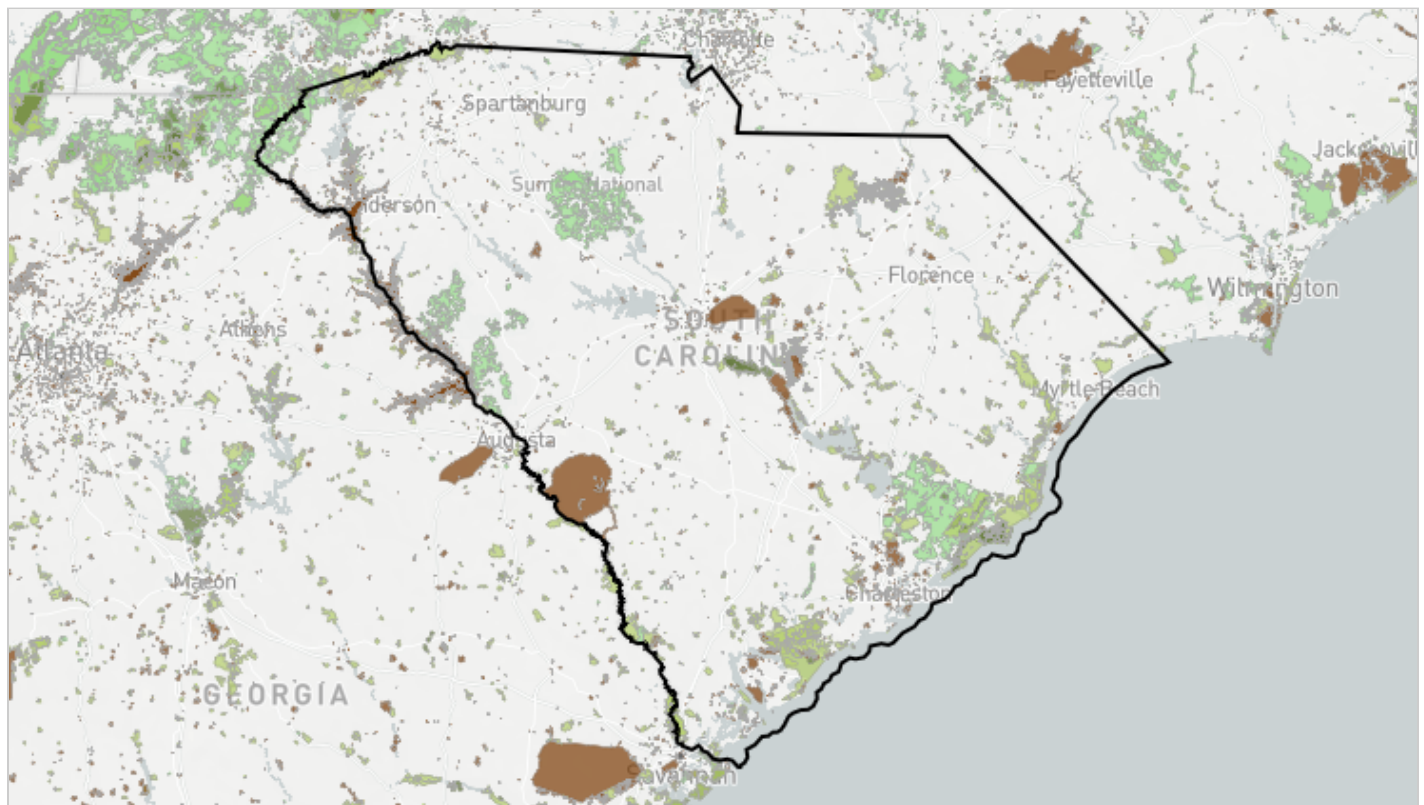


- | | |
|----------------|------------------------------------|
| Federal | Joint |
| State/province | Private non-profit conserved lands |
| Territorial | Private conservation land |
| Regional | Tribal |
| Local | Designation |
| | Ownership unknown |

Table 36: Extent of ownership class in this area. Protected areas are derived from the [Protected Areas Database of the United States](#) (PAD-US v3.0). Note: areas are based on the polygon boundary of this area compared to protected area polygons, rather than pixel-level analyses used elsewhere in this report.

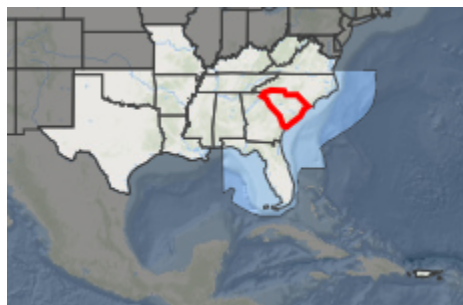
Ownership	Acres	Percent of Area
Federal	801,085	3.9%
State/province	545,548	2.7%
Regional	225	<0.1%
Local	70,393	0.3%
Joint	0.45	<0.1%
Private non-profit conserved lands	36,891	0.2%
Private conservation land	278,810	1.4%
Designation	628,931	3.1%
Ownership unknown	331,146	1.6%
<i>Not conserved</i>	<i>17,801,970</i>	<i>86.9%</i>
Total area	20,494,999	100%

Land protection status



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- Managed for biodiversity (disturbance events proceed or are mimicked)
- Managed for biodiversity (disturbance events suppressed)
- Managed for multiple uses (subject to extractive uses such as mining or logging, or OHV use)
- No known mandate for biodiversity protection

Table 37: Extent of land protection status in this area. Protected areas are derived from the [Protected Areas Database of the United States](#) (PAD-US v3.0). Note: areas are based on the polygon boundary of this area compared to protected area polygons, rather than pixel-level analyses used elsewhere in this report.

Land Protection Status	Acres	Percent of Area
Managed for biodiversity (disturbance events proceed or are mimicked)	132,620	0.6%
Managed for biodiversity (disturbance events suppressed)	1,145,061	5.6%
Managed for multiple uses (subject to extractive uses such as mining or logging, or OHV use)	743,070	3.6%
No known mandate for biodiversity protection	672,278	3.3%
<i>Not conserved</i>	<i>17,801,970</i>	<i>86.9%</i>
Total area	20,494,999	100%

Protected Areas

- Francis Marion and Sumter National Forests (USDA FOREST SERVICE; 637,312 acres)
- Savannah River Site (Unknown; 195,398 acres)
- Ashepoo-Combahee-Edisto (ACE) Basin National Estuarine Research Reserve (Unknown; 140,789 acres)
- Cape Romain National Wildlife Refuge (Unknown; 61,285 acres)
- Francis Marion (53,207 acres)
- Fort Jackson (52,702 acres)
- HARTWELL (Unknown; 52,107 acres)
- CAROLINA SANDHILLS NATIONAL WILDLIFE REFUGE (Fee; 45,917 acres)
- J. STROM THURMOND (Unknown; 44,110 acres)
- Sand Hills State Forest WMA (South Carolina Forestry Commission; 41,192 acres)
- Hartwell Lake (38,223 acres)
- CAPE ROMAIN NATIONAL WILDLIFE REFUGE (Fee; 35,136 acres)
- Jocassee Gorges (South Carolina Department of Natural Resources; 32,523 acres)
- CAPE ROMAIN NATIONAL WILDLIFE REFUGE (29,716 acres)
- RICHARD B. RUSSELL (Unknown; 27,763 acres)
- CONG (NPS; 26,226 acres)

- Woodbury Wildlife Management Area (South Carolina Department of Natural Resources; 25,928 acres)
- Santee Coastal Reserve (South Carolina Department of Natural Resources; 25,766 acres)
- Sparkleberry Swamp (South Carolina Public Service Authority; 23,608 acres)
- J. Strom Thurmond Lake (22,446 acres)
- Tom Yawkey Wildlife Center Heritage Preserve (South Carolina Department of Natural Resources; 20,304 acres)
- Joint Base Charleston (20,074 acres)
- Tom Yawkee Wildlife Center (Unknown; 19,779 acres)
- NORTH SALUDA WATERSHED (CITY OF GREENVILLE; 18,932 acres)
- North Inlet-Winyah Bay National Estuarine Research Reserve (Unknown; 18,918 acres)
- ... and 2,725 more protected areas ...

Nearby land trusts

[Click here](#) to search for land trusts within 250 miles of this area on the Land Trust Alliance website.

Credits

This report was generated by the Southeast Conservation Blueprint Explorer, which was developed by [Astute Spruce, LLC](#) in partnership with the U.S. Fish and Wildlife Service under the [Southeast Conservation Adaptation Strategy](#).

Data credits

Urbanization data are derived from the FUTURES urban growth model. Data provided by the [Center for Geospatial Analytics](#), NC State University (June 2022).

Sea level rise data are derived from the National Oceanic and Atmospheric Administration's [Sea Level Rise Inundation Depth Data](#) and the [2022 Sea Level Rise Technical Report](#).

Land ownership and conservation status is derived from the [Protected Areas Database of the United States](#) (PAD-US v3.0).