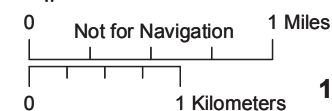


**Map 13A**  
South Carolina



**SEE BACK OF MAP**  
for details about mapped species and other  
species that occur in the mapped area.  
Data Published: August 2015



**1:50,000**



**Map 13A**  
**South Carolina**

**BIOLOGICAL RESOURCES**

Note: An asterisk (\*) indicates that life stage occurs in this range but not in all months included

DISPLAYED ON MAP

**BIRDS**

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
							J	F	M	A	M	J	J	A	S	O	N	D				
6	Passerine	Seaside sparrow	Nesting			-													Apr-Aug	-	-	-
18	Wading	Wading birds	Nesting			2 Rookeries													Feb-Sep	-	-	-
25	Shorebird	American oystercatcher	Wintering	C		10S													-	-	-	-
	Shorebird	Shorebirds	Migration			1,000S													-	Mar-Jun	Jul-Oct	-
	Shorebird	Shorebirds	Wintering			1,000S													-	-	-	-
117	Shorebird	American oystercatcher	Nesting	C		9 Pairs													Apr-Aug	-	-	-
	Shorebird	American oystercatcher	Wintering	C		2 Birds													-	-	-	-
118	Shorebird	Piping plover	Wintering	E	T	-													-	-	-	-
	Shorebird	Red knot	Migration		T	1,000S													-	Mar-May	Jul-Oct	-
	Shorebird	Red knot	Wintering		T	100S													-	-	-	-
	Shorebird	Shorebirds	Migration			100S													-	Mar-Jun	Jul-Oct	-
	Shorebird	Shorebirds	Wintering			100S													-	-	-	-
	Shorebird	Wilson's plover	Nesting	T		2 Pairs													Mar-Jul	-	-	-
119	Waterfowl	American black duck	Wintering			10S													-	-	-	-
	Waterfowl	American coot	Wintering			10,000S													-	-	-	-
	Waterfowl	Blue-winged teal	Wintering			10S													-	-	-	-
	Waterfowl	Gadwall	Wintering			100S													-	-	-	-
	Waterfowl	Green-winged teal	Wintering			100S													-	-	-	-
	Waterfowl	Hooded merganser	Nesting			Possible													Feb-Jun	-	-	-
	Waterfowl	Mottled duck	Nesting			Possible													Feb-May	-	-	-
	Waterfowl	Northern shoveler	Wintering			10S													-	-	-	-
	Waterfowl	Ring-necked duck	Wintering			1,000S													-	-	-	-
	Waterfowl	Wood duck	Nesting			100S													Feb-Jun	-	-	-
	Waterfowl	Wood duck	Wintering			10S													-	-	-	-
120	Shorebird	American oystercatcher	Nesting	C		2 Pairs													Apr-Aug	-	-	-
	Shorebird	American oystercatcher	Wintering	C		28 Birds													-	-	-	-
121	Shorebird	American oystercatcher	Wintering	C		-													-	-	-	-
	Shorebird	Red knot	Migration		T	1,000S													-	Mar-May	Jul-Oct	-
	Shorebird	Red knot	Wintering		T	100S													-	-	-	-
	Shorebird	Shorebirds	Migration			100S													-	Mar-Jun	Jul-Oct	-
	Shorebird	Shorebirds	Wintering			100S													-	-	-	-
122	Diving	Brown pelican	Nesting			335 Nests													Mar-Sep	-	-	-
	Gull/Tern	Black skimmer	Nesting	C		58 Nests													May-Aug	-	-	-
	Gull/Tern	Gull-billed tern	Nesting	C		47 Nests													May-Aug	-	-	-
	Shorebird	American oystercatcher	Nesting	C		20 Pairs													Apr-Aug	-	-	-
	Shorebird	American oystercatcher	Wintering	C		11 Birds													-	-	-	-
	Shorebird	Shorebirds	Migration			1,000S													-	Mar-Jun	Jul-Oct	-

## BIRDS (continued)

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
							J	F	M	A	M	J	J	A	S	O	N	D				
123	Shorebird	Shorebirds	Wintering			1,000S													-	-	-	-
	Wading	Wading birds	Nesting			2 Rookeries													Feb-Sep	-	-	-
	Shorebird	Shorebirds	Migration			1,000S													-	Mar-Jun	Jul-Oct	-
	Shorebird	Shorebirds	Wintering			1,000S													-	-	-	-
124	Shorebird	Wilson's plover	Nesting	T		8 Pairs													Mar-Jul	-	-	-
	Shorebird	Shorebirds	Migration			1,000S													-	Mar-Jun	Jul-Oct	-
	Shorebird	Shorebirds	Wintering			1,000S													-	-	-	-
125	Shorebird	Wilson's plover	Nesting	T		2 Pairs													Mar-Jul	-	-	-
	Diving	Brown pelican	Nesting			722 Nests													Mar-Sep	-	-	-
	Gull/Tern	Black skimmer	Nesting	C		79 Nests													May-Aug	-	-	-
	Gull/Tern	Gull-billed tern	Nesting	C		43 Nests													May-Aug	-	-	-
	Gull/Tern	Royal tern	Nesting			2,261 Nests													May-Aug	-	-	-
	Gull/Tern	Sandwich tern	Nesting			475 Nests													May-Aug	-	-	-
	Shorebird	American oystercatcher	Nesting	C		22 Pairs													Apr-Aug	-	-	-
	Shorebird	American oystercatcher	Wintering	C		5 Birds													-	-	-	-
126	Shorebird	Shorebirds	Migration			1,000S													-	Mar-Jun	Jul-Oct	-
	Shorebird	Shorebirds	Wintering			1,000S													-	-	-	-
	Shorebird	Wilson's plover	Nesting	T		33 Pairs													Mar-Jul	-	-	-

## FISH

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
							J	F	M	A	M	J	J	A	S	O	N	D					
223	Diadromous	Atlantic sturgeon	Migration		E	Present													-	-	-	Jan-Dec	Jan-Dec
	Diadromous	Shortnose sturgeon	Migration	E	E	Present													-	-	-	Jan-Dec	Jan-Dec
243	Estuarine Nursery	Spotted seatrout	Spawning Area			Aggregation													May-Aug	-	-	-	-
246	Estuarine Nursery	Black drum	Spawning Area			-													Mar-Apr	-	-	-	-
	Estuarine Nursery	Red drum	Spawning Area			-													Aug-Sep	-	-	-	-
	Estuarine Nursery	Spotted seatrout	Spawning Area			-													May-Aug	-	-	-	-

## HABITATS & RARE PLANTS

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Hatch	Internest	Juveniles	Adults
							J	F	M	A	M	J	J	A	S	O	N	D					
276	Wetland	Carolinal lilaepsis	Vulnerable Occurrence			-													-	-	-	-	-

## REPTILES & AMPHIBIANS



Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Hatch	Internest	Juveniles	Adults
							J	F	M	A	M	J	J	A	S	O	N	D					
296	Turtle	Green sea turtle	Nesting	T	T	Low													-	-	-	-	-
	Turtle	Leatherback sea turtle	Nesting	E	E	Low													-	-	-	-	-
	Turtle	Loggerhead sea turtle	Nesting	T	T	Low													-	-	-	-	-
297	Turtle	Green sea turtle	Nesting	T	T	Low													-	-	-	-	-
	Turtle	Leatherback sea turtle	Nesting	E	E	Low													-	-	-	-	-
	Turtle	Loggerhead sea turtle	Nesting	T	T	Medium													-	-	-	-	-

## INVERTEBRATES


Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
							J	F	M	A	M	J	J	A	S	O	N	D					
313	Bivalve	Eastern oyster	Concentration Area			Reef													May-Nov	May-Nov	Jun-Dec	Jan-Dec	Jan-Dec
314	Crab	Horseshoe crab	Spawning Area			High													Apr-Jul	Apr-Jul	May-Aug	-	Apr-Jul
315	Crab	Horseshoe crab	Nursery Area			-													-	-	-	Jan-Dec	-
316	Crab	Horseshoe crab	Nursery Area			-													-	-	-	Jan-Dec	-
	Crab	Horseshoe crab	Spawning Area			High													Apr-Jul	Apr-Jul	May-Aug	-	Apr-Jul

WIDESPREAD IN MAPPED AREA ( > 10 SQUARE KILOMETERS )




## BIRDS

	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
							J	F	M	A	M	J	J	A	S	O	N	D				
	Passerine	Nelson's sparrow	Wintering			-													-	-	-	-
		Saltmarsh sparrow	Wintering			-													-	-	-	-
	Waterfowl	Bufflehead	Wintering			100S													-	-	-	-
		Hooded merganser	Wintering			10S													-	-	-	-
		Mergansers	Wintering			10S													-	-	-	-
		Redhead	Wintering			10S													-	-	-	-
		Scaup	Rafting			100S													-	-	-	-
		Scaup	Rafting			1,000S													-	-	-	-
		Scoters	Migration			1,000S													-	Apr-Jun	-	-
		Scoters	Migration			100S													-	Apr-Jun	-	-
		Scoters	Rafting			10,000S													-	-	-	-
		Scoters	Rafting			1,000S													-	-	-	-



## FISH

	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
							J	F	M	A	M	J	J	A	S	O	N	D					
	Diadromous	American eel	Migration			-													-	-	-	Jan-May	Sep-Jan
		American shad	Migration			-													-	-	-	Aug-Dec	Jan-May
		American shad	Migration			-													-	-	-	-	Jan-May
		Atlantic sturgeon	General Distribution		E	Present													-	-	-	Jan-Dec	Jan-Dec
		Atlantic sturgeon	General Distribution		E	Present													-	-	-	-	Jan-Dec
		Blueback herring	Migration			-													-	-	-	-	Jan-May
		Blueback herring	Migration			-													-	-	-	Aug-Dec	Jan-May
		Hickory shad	Migration			-													-	-	-	-	Jan-May
		Hickory shad	Migration			-													-	-	-	Aug-Dec	Jan-May
		Shortnose sturgeon	General Distribution	E	E	Low													-	-	-	-	Jan-Dec
		Shortnose sturgeon	General Distribution	E	E	Present													-	-	-	Jan-Dec	Jan-Dec

## REPTILES & AMPHIBIANS









	<b>Subelement</b>	<b>Species</b>	<b>Mapping Qualifier</b>	<b>S</b>	<b>F</b>	<b>Concentration</b>	<b>Monthly Presence</b>												<b>Nest</b>	<b>Hatch</b>	<b>Internest</b>	<b>Juveniles</b>	<b>Adults</b>
							<b>J</b>	<b>F</b>	<b>M</b>	<b>A</b>	<b>M</b>	<b>J</b>	<b>J</b>	<b>A</b>	<b>S</b>	<b>O</b>	<b>N</b>	<b>D</b>					
	Amphibian	Flatwoods salamander	General Distribution	E	T	Possible													-	-	-	-	-
		Gopher frog	General Distribution	E		Possible													-	-	-	-	-
		Northern dwarf siren	General Distribution	T		Possible													-	-	-	-	-
	Snake	Diamondback rattlesnake	General Distribution	C		Rare													-	-	-	-	-
	Turtle	Green sea turtle	General Distribution	T	T	-													-	-	-	-	-
		K. ridley sea turtle	General Distribution	E	E	-													-	-	-	-	-
		Leatherback sea turtle	General Distribution	E	E	-													-	-	-	-	-
		Loggerhead sea turtle	General Distribution	T	T	-													-	-	-	-	-

## MARINE MAMMALS




		Monthly Presence																				
	Subelement	Species	Mapping Qualifier	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molt
	Manatee	West Indian manatee	General Distribution	E	E	-													-	-	-	-
	Whale	Humpback whale	General Distribution	E	E	-													-	-	-	-

## ALSO PRESENT IN MAPPED AREA (GENERAL DISTRIBUTION)



## BIRDS

	<b>Subelement</b>	<b>Species</b>	<b>Monthly Presence</b>												<b>Nest</b>	<b>Mig.(S)</b>	<b>Mig.(F)</b>	<b>Molt</b>
			<b>J</b>	<b>F</b>	<b>M</b>	<b>A</b>	<b>M</b>	<b>J</b>	<b>J</b>	<b>A</b>	<b>S</b>	<b>O</b>	<b>N</b>	<b>D</b>				
	Alcid	Alcids													-	-	-	-
	Diving	Brown pelican													-	-	Jul-Oct	-
		D. crested cormorant													-	-	-	-
		Diving birds													-	-	-	-
		Loons													-	-	-	-
	Gull/Tern	Gulls													-	-	-	-
		Terns													-	-	-	-
	Passerine	Seaside sparrow													-	-	-	-
	Pelagic	Black-capped petrel													-	-	-	-
		Jaegers													-	-	-	-
		Northern gannet													-	-	-	-
		Shearwaters													-	-	-	-
		Storm-petrels													-	-	-	-
	Shorebird	Phalaropes													-	-	-	-
	Wading	Clapper rail													Mar-Sep	-	-	-
	Waterfowl	Mallard													-	-	-	-

**FISH**

	<b>Subelement</b>	<b>Species</b>	<b>Monthly Presence</b>												<b>Spawn</b>	<b>Eggs</b>	<b>Larvae</b>	<b>Juveniles</b>	<b>Adults</b>
			<b>J</b>	<b>F</b>	<b>M</b>	<b>A</b>	<b>M</b>	<b>J</b>	<b>J</b>	<b>A</b>	<b>S</b>	<b>O</b>	<b>N</b>	<b>D</b>					
	Diadromous	American shad													-	-	-	Jan-Dec	-
		Blueback herring													-	-	-	Jan-Dec	-
		Hickory shad													-	-	-	Jan-Dec	-
		Striped bass													-	-	-	Jan-Dec	Jan-Dec
	Estuarine Nursery	Atl. sharpnose shark													-	-	-	Apr-Nov	Apr-Nov
		Atl. sharpnose shark													-	-	-	-	-
		Atl. sharpnose shark													-	-	-	Feb-Dec	Feb-Dec
		Atlantic croaker													-	-	Nov-Apr	May-Sep	May-Sep
		Atlantic croaker													-	-	Nov-Apr	Jun-Nov	Jun-Nov
		Atlantic croaker													-	-	Nov-Apr	Apr-Oct	Apr-Oct
		Atlantic croaker													-	-	Nov-Apr	Jun-Oct	Jun-Oct
		Atlantic menhaden													-	-	-	Jul-Sep	Jul-Sep
		Atlantic menhaden													-	-	Dec-May	Sep-Nov	Mar-Nov
		Atlantic menhaden													-	-	-	-	Jul-Sep
		Atlantic menhaden													-	-	-	Jul-Oct	Jul-Oct
		Black drum													-	-	-	Jan-Dec	Jan-Dec
		Black drum													-	-	-	Apr-Jan*	Apr-Jan*
		Bluefish													-	-	-	-	-
		Bonnethead shark													-	-	-	-	Jun-Aug
		Bonnethead shark													-	-	-	Apr-Nov	Apr-Nov
		Bonnethead shark													-	-	-	-	-
		Bull shark													-	-	-	Apr-Oct	Apr-Oct
		Ladyfish													-	-	-	-	-
		Porgies													-	-	-	-	-
		Red drum													-	-	Aug-Nov	Jan-Dec	Jan-Dec
		Red drum													Aug-Sep	-	Aug-Nov	-	Aug-Nov
		Sheepshead													-	-	-	May-Nov	May-Nov
		Sheepshead													-	-	-	Apr-Dec	Apr-Dec
		Silver seatrout													-	-	-	-	-
		Southern flounder													-	-	-	Mar-Jan*	Mar-Jan*
		Southern flounder													-	-	-	-	-
		Southern flounder													-	-	-	Mar-Nov	Mar-Nov
		Southern flounder													-	-	-	Mar-Dec	Mar-Dec
		Southern kingfish													-	-	-	-	-
		Spot													-	-	-	Jan-Dec	Jan-Dec
		Spot													-	-	-	-	-
		Spot													-	-	-	Apr-Dec	Apr-Dec
		Spotted seatrout													May-Aug	-	May-Aug	-	Jan-Dec
		Star drum													-	-	-	-	-
		Striped mullet													-	-	-	-	-
		Summer flounder													-	-	-	-	-
		Summer flounder													-	-	Dec-Apr	Jan-Dec	Mar-Dec
		Weakfish													-	-	-	-	-
	Fish	Great hammerhead													-	-	-	Apr-Oct	Apr-Oct





## FISH (continued)

	Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
			J	F	M	A	M	J	J	A	S	O	N	D					
	Marine Benthic	Atlantic spadefish													-	-	-	-	-
		Florida pompano													-	-	-	-	-
		Fringed flounder													-	-	-	-	-
		Lemon shark													-	-	-	Apr-Nov	Apr-Nov
		Smooth dogfish													-	-	-	-	Dec-Apr
	Marine Pelagic	Spotted hake													-	-	-	-	-
		Anchovies													-	-	-	-	-
		Blacknose shark													-	-	-	Apr-Oct	Apr-Oct
		Blacktip shark													-	-	-	May-Oct	May-Oct
		Blacktip shark													-	-	-	Apr-Oct	Apr-Oct
		Cobia													-	-	-	Apr-Nov	Apr-Sep
		Cobia													-	-	-	Apr-Nov	-
		Finetooth shark													-	-	-	May-Oct	May-Oct
		Giant manta													-	-	-	-	-
		King mackerel													-	-	-	Sep-Nov	Sep-Nov
		Sandbar shark													-	-	-	Apr-Oct	Apr-Oct
		Scalloped hammerhead													-	-	-	May-Oct	May-Oct
		Spanish mackerel													-	-	-	-	-
		Spinner shark													-	-	-	Oct-Dec	Oct-Dec
		Spiny dogfish													-	-	-	-	Dec-Apr
		Tiger shark													-	-	-	Apr-Nov	Apr-Nov
		White shark													-	-	-	Dec-Apr	Dec-Apr

## REPTILES & AMPHIBIANS

	Subelement	Species	Monthly Presence												Nest	Hatch	Internest	Juveniles	Adults
			J	F	M	A	M	J	J	A	S	O	N	D					
	Turtle	C. diamondback terrapin													-	-	-	-	-

## INVERTEBRATES

	Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
			J	F	M	A	M	J	J	A	S	O	N	D					
	Cephalopod	Atlantic brief squid													-	-	-	-	-
	Crab	Blue crab													Apr-Sep	Apr-Sep	May-Nov	-	Apr-Sep
		Blue crab													-	-	May-Nov	Jan-Dec	Jan-Dec
		Blue crab													-	-	May-Nov	Apr-Nov	Apr-Nov
	Invertebrate	Cannonball jellyfish													-	-	-	-	-
	Shrimp	Brown shrimp													-	-	Mar-Jun	Apr-Oct	Jun-Nov
		Brown shrimp													-	-	Mar-Jun	Apr-Dec	Jun-Sep
		Brown shrimp													-	-	Jan-Mar	-	Jun-Nov
		Brown shrimp													-	-	Mar-Jun	Mar-Nov	-
		White shrimp													-	-	Jun-Sep	Jan-Dec	Apr-Jun
		White shrimp													-	-	Jun-Sep	Jan-Dec	Apr-Dec
		White shrimp													May-Sep	May-Sep	Jun-Sep	-	Mar-Nov
		White shrimp													-	-	Jun-Sep	Jan-Dec	Jan-Dec









## MARINE MAMMALS

 Subelement	Species	Monthly Presence												Mating	Calving	Pupping	Molt
		J	F	M	A	M	J	J	A	S	O	N	D				
Dolphin	Bottlenose dolphin													-	-	-	-















For additional information about species locations and extent, reference the underlying GIS data available from [response.restoration.noaa.gov](https://response.restoration.noaa.gov)

## SHORELINE RESOURCES

### ESI POLYGON HABITAT TYPES

ESI Rank	Habitat Classification	Area (Acres)	Area (Sq. Miles)
 10A	Salt and Brackish Water Marshes	5,136.23	8.03
 10B	Freshwater Marshes	39.12	0.06
 10C	Swamps	6.71	0.01
 10D	Scrub and Shrub Wetlands	45.94	0.07
 9A	Sheltered Tidal Flats	744.93	1.16
 7	Exposed Tidal Flats	65.84	0.10

### ESI SHORELINE HABITAT TYPES

ESI Rank	Shoreline Habitat Classification	Length (Meters)	Length (Miles)	% of ESI Shoreline
 10A	Salt and Brackish Water Marshes	143,879.71	89.40	58%
 9A	Sheltered Tidal Flats	49,302.27	30.64	20%
 9B	Vegetated Low Banks	842.59	0.52	< 1%
 8A	Sheltered Scarps (Bedrock/Mud/Clay)	127.35	0.08	< 1%
 8B	Sheltered, Solid Man-Made Structures	4,130.75	2.57	2%
 8C	Sheltered Riprap	1,234.96	0.77	< 1%
 7	Exposed Tidal Flats	19,236.80	11.95	8%
 6A	Gravel Beaches	7,676.28	4.77	3%
 6B	Riprap	4,759.32	2.96	2%
 5	Mixed Sand and Gravel Beaches	1,192.22	0.74	< 1%
 3A	Fine to Medium Grained Sand Beaches	10,979.87	6.82	4%
 3B	Scarps and Steep Slopes (Sand)	3,295.32	2.05	1%
 2A	Exposed, Wave-Cut Platforms (Bedrock/Mud/Clay)	163.18	0.10	< 1%
 1B	Exposed, Solid Man-Made Structures	1,843.39	1.15	1%

Total ESI Shoreline:	248,664.02	Total ESI Shoreline:	154.51
Total Shoreline:	165,646.02	Total Shoreline:	102.93

Note: A shoreline segment may include multiple shoreline habitats. If any segments include multiple habitats, the combined length of all habitats may exceed the length of the mapped shoreline, and the percent of ESI shoreline values will sum to greater than 100%

All underlying GIS data can be obtained from [response.restoration.noaa.gov](https://response.restoration.noaa.gov)

