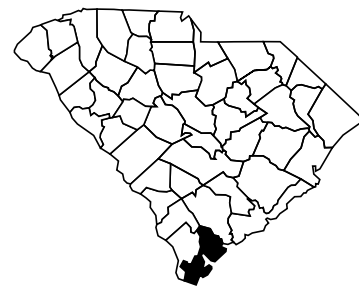


Beaufort County:

South Carolina's southernmost county, Beaufort County hosts some well-protected barrier islands, and outer coastal plain habitats. Many of the saltwater creeks serve and protect these areas. Shorebirds and, in the right season, bird and insect migrants abound. Evidence of the earliest settlers over 4000 years ago is found, along with very recent human migrants attracted by a benign climate. Fortunately many of the new developments have recognized the need to protect the natural areas.



Sites Visited:

Beaufort and Coosaw River	04/25/1998
Combahee Unit, ACE Basin National Wildlife Refuge	12/14/2002
Hunting Island State Park	04/26/1998
Sea Pines Forest Preserve	11/16/1996
Victoria Bluffs Heritage Preserve	02/28/2004

Beaufort and Coosaw River

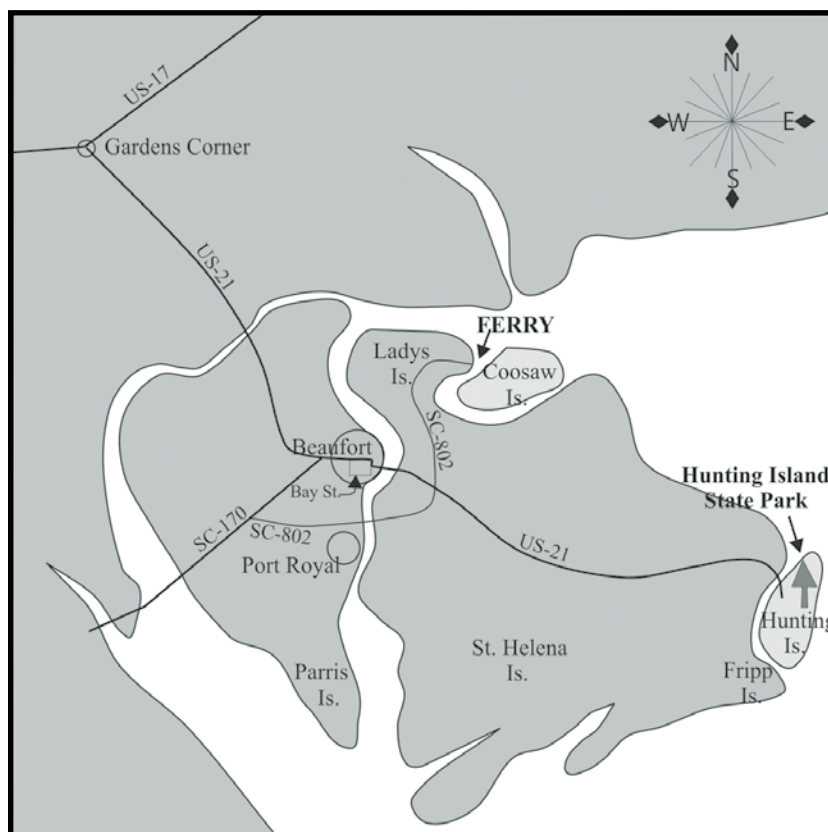
ACE Basin National Wildlife Refuge

04/25/1998

The ACE (Ashley-Combahee-Edisto) Basin contains several national wildlife refuges, state parks and heritage preserves in the counties within that drainage system. This particular trip was not in any one of these properties, but rather mostly by boat exploring the tidal creeks in the Beaufort area. Making this trip special was our leader for the day, SCAN member Dr. Ed Ruppert, co-author with Dr. Richard Fox of the field guide *Seashore Animals of the Southeast*. At the beginning we just explored the area adjacent to the Beaufort docks. Here we were able to spot hydroids, sponges, anemones, sea slugs, and like creatures. The afternoon was the 5-hour boat trip that led to seeing many shorebirds, a mink, river otter and dolphins. A few stops were made where one could get out and explore the edges of the marshes and sand bars. Some islands are off limits to stopping and exploring, especially Morgan Island which houses a small population of Rhesus monkeys used in research laboratories in past years. The island is separated by water wide enough to prevent the monkeys from escaping

but supports the small healthy population. Our trip went by the island and spotted monkeys in the trees near the shore.

Directions: From the intersection US 17 and US 21 in Beaufort County at the community of Gardens Corner, follow US 21 south toward Beaufort. To reach the Downtown Marina, follow 21 into Beaufort proper. Turn right at the stoplight at the foot of the Lady's Island bridge onto Bay Street. The marina is about two blocks on the left.



Beaufort and Coosaw River, ACE Basin Beaufort County, SC 04/25/1998	Rough Sea-squirt <i>Styela plicata</i> Sea-grape <i>Molgula manhattensis</i> Bushy Bryozoan <i>Anguinella palmata</i> Marsh Periwinkle; Mud Snail <i>Littorina irrorata</i> Sea-slug <i>Cratena pilata</i> Eastern Oyster <i>Crassostrea virginica</i> Polychaete Worm <i>Nereis succinea</i> Ivory Barnacle <i>Balanus eburneus</i> Skeleton Shrimp <i>Caprella penantis</i> Black-fingered Mud Crab <i>Panopeus herbstii</i> Common Green Darner <i>Anax junius</i> Cloudless Sulphur <i>Phoebis sennae eubule</i> Pipefish <i>Syngnathus</i> sp. Triggerfish (juvenile) <i>Balistes</i> sp. Diamondback Terrapin <i>Malaclemys terrapin</i> Brown Pelican <i>Pelecanus occidentalis</i> Double-crested Cormorant <i>Phalacrocorax auritus</i> Tricolored Heron <i>Egretta tricolor</i> Little Blue Heron <i>Egretta caerulea</i> Snowy Egret <i>Egretta thula</i> Great Egret <i>Casmerodius albus</i> Great Blue Heron <i>Ardea herodias</i>	Wood Stork <i>Mycteria americana</i> Mallard <i>Anas platyrhynchos</i> Common Merganser <i>Mergus merganser</i> Clapper Rail <i>Rallus longirostris</i> American Oystercatcher <i>Haematopus palliatus</i> Semipalmated Plover <i>Charadrius semipalmatus</i> Black-bellied Plover <i>Pluvialis squatarola</i> Marbled Godwit <i>Limosa fedoa</i> Whimbrel <i>Numenius phaeopus</i> Willet <i>Catoptrophorus semipalmatus</i> Greater Yellowlegs <i>Tringa melanoleuca</i> Spotted Sandpiper <i>Actitis macularia</i> Short-billed Dowitcher <i>Limnodromus griseus</i> Red Knot <i>Calidris canutus</i> Dunlin <i>Calidris alpina</i> Western Sandpiper <i>Calidris mauri</i> Least Sandpiper <i>Calidris minutilla</i> Ruddy Turnstone <i>Arenaria interpres</i> Laughing Gull <i>Larus atricilla</i> Ring-billed Gull <i>Larus delawarensis</i> Common Tern <i>Sterna hirundo</i> Least Tern <i>Sterna antillarum</i>	Royal Tern <i>Sterna maxima</i> Black Skimmer <i>Rhynchops niger</i> Turkey Vulture <i>Cathartes aura</i> Black Vulture <i>Coragyps atratus</i> Bald Eagle <i>Haliaeetus leucocephalus</i> Northern Harrier <i>Circus cyaneus</i> Osprey <i>Pandion haliaetus</i> Chimney Swift <i>Chaetura pelagica</i> Belted Kingfisher <i>Ceryle alcyon</i> Purple Martin <i>Progne subis</i> Barn Swallow <i>Hirundo rustica</i> Blue Jay <i>Cyanocitta cristata</i> Fish Crow <i>Corvus ossifragus</i> Marsh Wren <i>Cistothorus palustris</i> Red-winged Blackbird <i>Agelaius phoeniceus</i> Common Grackle <i>Quiscalus quiscula</i> Boat-tailed Grackle <i>Quiscalus major</i> Mink <i>Mustela vison</i> River Otter <i>Lutra canadensis</i> Bottle-nosed Dolphin <i>Tursiops truncatus</i> Rhesus Monkey <i>Macaca mulata</i>
ALGAE			
Sea Lettuce <i>Ulva lactuca</i>			
LICHENS			
<i>Graphina columbina</i> <i>Graphis afzelii</i> <i>Phaeographis inusta</i> <i>Phaeographis lobata</i> <i>Lecanora varia</i> <i>Parmotrema dilatatum</i> <i>Parmotrema michauxianum</i> <i>Parmotrema perforatum</i> <i>Canoparmelia caroliniana</i> <i>Dirinaria confusa</i> <i>Chaenotheca ferruginea</i> <i>Leproloma membranaceum</i> <i>Leprocaulon microscopicum</i>			
FAUNA			
Sulfur Sponge <i>Aplysilla longispina</i> Red Beard Sponge <i>Microcionia prolifera</i> Lion's Mane Jelly; Winter Jelly <i>Cyanea capillata</i> Hydroid (medusa stage) <i>Bougainvillia rugosa</i> Hydroid <i>Tubularia crocea</i> Brown Anemone <i>Aiptasia pallida</i> Warty Comb-jelly <i>Mnemiopsis mccradyi</i> Honeysuckle Tunicate <i>Perophora viridis</i>			

Combahee Unit

ACE Basin National Wildlife Refuge

12/14/2002

The ACE Basin represents one of the largest undeveloped wetland ecosystems remaining on the Atlantic coast. This particular refuge includes about 11,000 acres. This refuge is managed to provide a complex of habitats for a diverse wildlife population. There are managed water impoundments, formerly rice field impoundments, to favor specific species. The pecan grove, other hardwood groves, plus live oaks and abandoned field reverting to a wild state added additional habitats for a more diverse number of species to prosper. This diversity led to a rewarding list of birds spotted on this day even though it was a cold windy day. One disturbing observation was the large number of the non-native Chinese Tallow Tree, *Sapium sebiferum*, that were clearly becoming an objectionable invasive. The native Red Maple and Willow populations seemed to be most affected.

Directions: This area of the refuge is located on the south side of the Combahee River between US 17A and US 17, near the town of Yemassee. From I-95 take Exit 42 and follow US 21 and then 17A into Yemassee. At the caution light, take a left onto Salkahatchie Road. Follow this about a block, then as soon as you cross the first railroad track, turn left onto Railroad Avenue N. Proceed 0.3 miles, then turn right on River Road (SSR 33). Follow River Road for 7.9 miles to the pecan grove parking area on the right. It's just past the big white plantation house. There is no sign at

this entrance. If you come to the refuge sign on the left you have gone a little too far.

Coming from the direction of Charleston on US 17, cross over the Combahee river and go 1.5 miles to River Road (SSR 33) on your right. Take River Road for another 1.5 miles to the pecan grove parking area on the left.

**Combahee Unit,
ACE Basin
Beaufort County, SC
12/14/2002**

LICHENS

Usnea strigosa

FLORA

Southern Grapefern

Sceptridium bitematum

Bracken

Pteridium aquilinum

Ebony Spleenwort

Asplenium platyneuron

Resurrection Fern

*Pleopeltis polypodioides
michauxiana*

Eastern Mosquito Fern

Azolla caroliniana

Spruce Pine

Pinus glabra

Loblolly Pine

Pinus taeda

Eastern Red Cedar

Juniperus virginiana virginiana

Bald-cypress

Taxodium distichum

American Frog's-bit

Limnolobium spongia

Dwarf Palmetto

Sabal minor

Cabbage Palmetto

Sabal palmetto

Duckweed

Landoltia punctata

Watermeal

Wolffia sp.

Common Rush

Juncus effusus solutus

Umbrella Sedge

Cyperus sp.

Woolgrass Bulrush

Scirpus cyperinus

Giant Cane

Arundinaria gigantea

Giant Plume Grass

Saccharum giganteum

Common Cattail

Typha latifolia

Spanish-moss

Tillandsia usneoides

Catbrier

Smilax bona-nox

Common Greenbrier

Smilax rotundifolia

Jackson-brier

Smilax smallii

Red Bay

Persea borbonia

Sweet Gum

Liquidambar styraciflua

Winged Elm

Ulmus alata

Southern Hackberry

Celtis laevigata

Red Mulberry

Morus rubra

Mockernut Hickory

Carya alba

Pecan

Carya illinoensis

Common Wax-myrtle

Morella cerifera

White Oak

Quercus alba

Laurel Oak

Quercus laurifolia

Swamp Chestnut Oak

Quercus michauxii

Water Oak

Quercus nigra

Cherrybark Oak

Quercus pagoda

Willow Oak

Quercus phellos

Shumard Oak

Quercus shumardii shumardii

Post Oak

Quercus stellata

Live Oak

Quercus virginiana

Alligator-weed

Alternanthera philoxeroides

St. Andrew's Cross

Hypericum hypericoides

Bristly-mallow

Modiola caroliniana

Sparkleberry

Vaccinium arboreum

Indian-strawberry

Potentilla indica

Black Cherry

Prunus serotina serotina

Blackberry

Rubus sp.

Tick-trefoil

Desmodium sp.

Bladderpod

Glottidium vesicarium

Vetch

Vicia sp.

Swamp Tupelo

Nyssa biflora

Chinese Holly

Ilex cornuta

American Holly

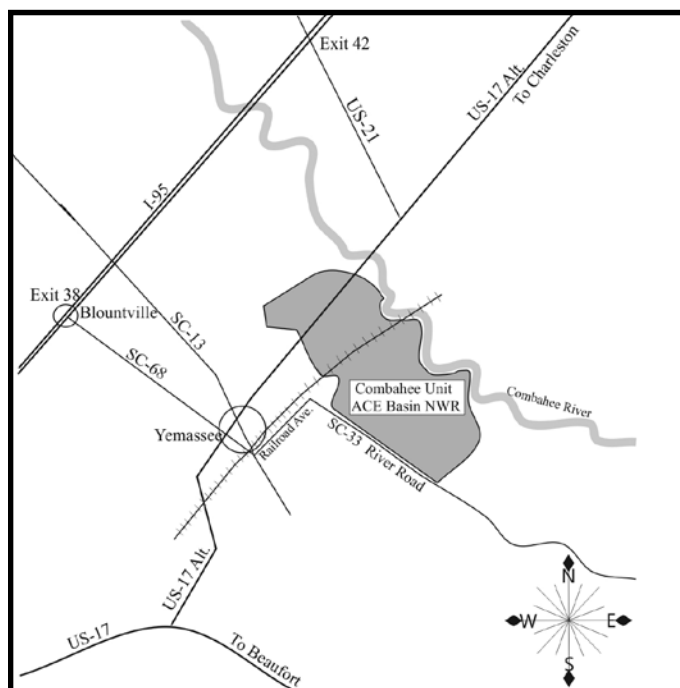
Ilex opaca opaca

Yaupon

Ilex vomitoria

Popcorn Tree

Triadica sebifera



Supplejack

Berchemia scandens

Virginia-creeper

Parthenocissus quinquefolia

Muscadine

Vitis rotundifolia rotundifolia

Red Maple

Acer rubrum

Winged Sumac

Rhus copallinum

Eastern Poison Ivy

*Toxicodendron radicans
radicans*

Southern Carolina Crane's-bill

*Geranium carolinianum
carolinianum*

Swamp Water-pennywort

Hydrocotyle ranunculoides

Carolina Ponyfoot

Dichondra carolinensis

Brazilian Vervain

Verbena brasiliensis

Henbit

*Lamium amplexicaule
amplexicaule*

Chinese Privet

Ligustrum sinense

Trumpet-creeper

Campsis radicans

Japanese Honeysuckle

Lonicera japonica

Silverling

Baccharis halimifolia

Thistle

Cirsium sp.

Marsh Flat-topped Goldenrod

Euthamia hirtipes

Tree-ear

Auricularia auricula

Witches'-butter

Tremella mesenterica

Turkey-tail

Trametes versicolor

Crimped Gill

Plicaturopsis crispa

False Turkey-tail

Stereum ostrea

Gill Fungus

Amanita sp.

Columned Stinkhorn

Clathrus columnatus

FAUNA

**Sulfur-winged Grasshopper
(juvenile)**

Arphia sp.

Carolina Mantis (egg)

Stagmomantis carolina

Gouty Oak Gall (wasp)

Plagiotrochus punctatus

Woolly Oak Gall (wasp)

Callirhytis lanata

Obscure Rove Beetle

Gyrophana sp.

Polyphemus Moth (cocoon)

Antheraea polyphemus

Green-backed Heron

Butorides striatus

Great Egret

Casmerodius albus

Blue-winged Teal

Anas discors

Wood Duck

Aix sponsa

Clapper Rail

Rallus longirostris

Common Moorhen

Gallinula chloropus

Turkey Vulture

Cathartes aura

Belted Kingfisher

Ceryle alcyon

Red-bellied Woodpecker

Melanerpes carolinus

Northern Flicker*Colaptes auratus***Downy Woodpecker***Picoides pubescens***Yellow-bellied Sapsucker***Sphyrapicus varius***Pileated Woodpecker***Dryocopus pileatus***Eastern Phoebe***Sayornis phoebe***Tree Swallow***Tachycineta bicolor***Blue Jay***Cyanocitta cristata***American Crow***Corvus brachyrhynchos***Tufted Titmouse***Parus bicolor***Carolina Chickadee***Parus carolinensis***White-breasted Nuthatch***Sitta carolinensis***House Wren***Troglodytes aedon***Ruby-crowned Kinglet***Regulus calendula***Eastern Bluebird***Sialia sialis***Hermit Thrush***Catharus guttatus***American Robin***Turdus migratorius***Northern Mockingbird***Mimus polyglottos***White Thrasher***Toxostoma rufum***Yellow-rumped Warbler***Dendroica coronata***Northern Cardinal***Cardinalis cardinalis***Song Sparrow***Melospiza melodia***Chipping Sparrow***Spizella passerina***White-throated Sparrow***Zonotrichia albicollis***White-tailed Deer (tracks)***Odocoileus virginianus*

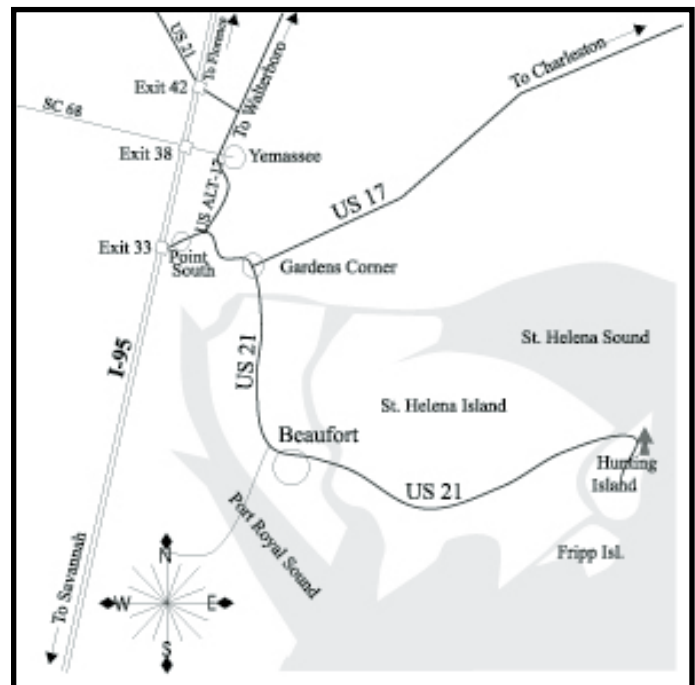
Hunting Island State Park

04/26/1998

Hunting Island is our southernmost state park, and our most popular in terms of visitors per year. It is a semi-tropical barrier island with a wide beach that attracts vacationers and wildlife alike. Behind the wide beach and sand dunes is a broad tidal creek and expansive marsh. The array of wildlife includes Loggerhead Sea Turtles, Painted Buntings, Alligators, Brown Pelicans, Atlantic Dolphins and White-tailed Deer, Raccoons and even the endangered Eastern Diamondback Rattlesnake. The upland areas of the park are a rich semi-tropical maritime forest dominated by Slash Pine, Live Oak and Cabbage Palmetto.

Because this trip was led by a marine biologist, Dr. Ed Ruppert, most of our time was spent on the outer beach and the areas near the inlets where there were the most observations of local marine life. It was amazing how much could be learned just by identifying the traces these animals leave behind, such as egg cases, bits of shell or bone or tracks in the mud. In fact the fauna were so fascinating, no one kept track of plant material seen.

Directions: If approaching from I-95, take Exit 33, US 21 East, toward and then through Beaufort. It is 42 miles to the park at the end of US 21. If approaching from Charleston and immediate area take US 17 south to Gardens Corner and turn east on US 21. Again go to the end at Hunting Island State Park.

**Hunting Island****State Park**

Beaufort County, SC

04/26/1998

FAUNA**Boring Sponge (sign)***Cliona celata***Sponge***Homaxinella rudis***Lion's Mane Jelly; Winter Jelly***Cyanea capillata***Sea-whip***Leptogorgia virgulata***Sea-pansy (soft coral)***Renilla reniformis***Warty Comb-jelly***Mnemiopsis mccradyi***Beroe's Comb-jelly***Beroe ovata***Brown Rock Urchin (shell)***Arbacia punctulata***Rubbery Bryozoan***Alcyonidium hauffi***Bryozoan***Alcyonidium polyoum***Humphrey's Wentletrap***Epitonium humphreysi***Flat Slipper (snail) (shell)***Crepidula plana***Southern Moon Snail; Shark-eye***Polinices duplicatus***Baby's-ear (shell)***Sinum perspectivum***Thick-lipped Oyster-drill***Eupleura caudata***Atlantic Oyster-drill (shell)***Urosalpinx cinerea***Eastern Mud Snail***Ilyanassa obsoleta***Eastern Nassa (snail)(shell)***Nassarius vibex***Channeled Whelk (shell)***Busycon canaliculatum***Knobbed Whelk (shell)***Busycon carica***Lettered Olive (snail) (shell)***Oliva sayana***Ribbed Mussel***Geukensia demissa***Blood Ark (shell)***Anadara ovalis***Transverse Ark (shell)***Anadara transversa***Ponderous Ark***Noetia ponderosa***Stiff Pen (shell)***Atrina rigida***Eastern Oyster***Crassostrea virginica***Cat's-paw; Kitten's-paw (shell)***Plicatula gibbosa***Jingle Shell***Anomia simplex***Giant Atlantic Cockle (shell)***Dinocardium robustum*

Channeled Duck Clam (shell) <i>Raeta plicatella</i>	Speckled Crab <i>Arenaeus cribrarius</i>	Flounder <i>Platichthys</i> sp.	Common Ground-dove <i>Columbina passerina</i>
Atlantic Surf Clam (shell) <i>Spisula solidissima</i>	Blue Crab <i>Callinectes</i> sp.	American Alligator <i>Alligator mississippiensis</i>	Blue Jay <i>Cyanocitta cristata</i>
Green Razor Clam (shell) <i>Solen viridis</i>	Ghost Crab <i>Ocypode quadrata</i>	Brown Pelican <i>Pelecanus occidentalis</i>	American Crow <i>Corvus brachyrhynchos</i>
Lined Tellin (shell) <i>Tellina alternata</i>	Sand Fiddler Crab <i>Uca pugnator</i>	Anhinga; Snakebird <i>Anhinga anhinga</i>	Fish Crow <i>Corvus ossifragus</i>
Florida Coquina <i>Donax variabilis</i>	Salt-marsh Punkie; Biting Midge <i>Culicoides furens</i>	Double-crested Cormorant <i>Phalacrocorax auritus</i>	Carolina Wren <i>Thryothorus ludovicianus</i>
Disk (shell) <i>Dosinia discus</i>	Comet Darner <i>Anax longipes</i>	Tricolored Heron <i>Egretta tricolor</i>	Blue-gray Gnatcatcher <i>Poliophtila caerulea</i>
Northern Quahog Clam (shell) <i>Mercenaria mercenaria</i>	Blue Dasher <i>Pachydiplax longipennis</i>	Snowy Egret <i>Egretta thula</i>	Northern Mockingbird <i>Mimus polyglottos</i>
Soda-straw Worm <i>Kinbergonuphis jenneri</i>	Violet-masked Glider <i>Tramea carolina</i>	Cattle Egret <i>Bubulcus ibis</i>	Brown Thrasher <i>Toxostoma rufum</i>
Plumed Worm <i>Diopatra cuprea</i>	Obscure Rove Beetle <i>Aleochara</i> sp.	Great Egret <i>Casmerodius albus</i>	European Starling <i>Sturnus vulgaris</i>
Mason Worm <i>Sabellaria floridensis</i>	Soldier Beetle <i>Cantharis</i> sp.	Clapper Rail <i>Rallus longirostris</i>	Yellow-rumped Warbler <i>Dendroica coronata</i>
Atlantic Horseshoe Crab <i>Limulus polyphemus</i>	Palmetto Tortoise Beetle <i>Hemisphaerota cyanea</i>	American Oystercatcher <i>Haematopus palliatus</i>	Pine Warbler <i>Dendroica pinus</i>
Marine Roly-Poly <i>Sphaeroma quadridentata</i>	Palamedes Swallowtail <i>Papilio palamedes</i>	Whimbrel <i>Numenius phaeopus</i>	Northern Cardinal <i>Cardinalis cardinalis</i>
Fragile Barnacle <i>Chthamalus fragilis</i>	Common Buckeye <i>Junonia coenia</i>	Willow <i>Catoptrophorus semipalmatus</i>	Boat-tailed Grackle <i>Quiscalus major</i>
Ivory Barnacle <i>Balanus eburneus</i>	Monarch (butterfly) <i>Danaus plexippus</i>	Ruddy Turnstone <i>Arenaria interpres</i>	Gray Squirrel <i>Sciurus carolinensis</i>
Beachhopper (amphipod) <i>Talorchestia</i> sp.	Curve-lined Owllet <i>Phyrosopus callitrichoides</i>	Laughing Gull <i>Larus atricilla</i>	White-tailed Deer (tracks) <i>Odocoileus virginianus</i>
Carolinian Ghost Shrimp <i>Callinassa major</i>	Lunate Zale (moth) <i>Zale lunata</i>	Ring-billed Gull <i>Larus delawarensis</i>	
Green-striped Hermit Crab <i>Clibanarius vittatus</i>	Catfish <i>Ictalurus</i> sp.	Herring Gull <i>Larus argentatus</i>	
Common Mole Crab <i>Emerita talpoida</i>	Needlefish <i>Tylosurus</i> sp.	Mourning Dove <i>Zenaidura macroura</i>	

FOSSILS

Hard-shelled Clam
Mercenaria campechiensis

Sea Pines Forest Preserve

11/16/1996

This is a classic barrier island maritime forest habitat with alternating forested sand ridges and long wetlands on the southern edge of Hilton Head Island. The first human inhabitants built a shell ring here about 4000 years ago. Since the 1700's it has been used for rice, indigo, cotton and timber. Having now been protected since 1959, it is slowly returning to more mature habitat. Currently accessed by walking and riding trails including boardwalks and observation decks over parts of the wetlands and man-made lakes, the plants and animals that utilize these habitats are likely to be seen. Unfortunately on the day SCAN visited it was very cold and windy. Most animals from insects, birds, and mammals were taking shelter and not letting themselves be seen. Birds would not even respond to an owl tape that was tried as a last resort. Only the bravest were actually seen. Plants couldn't hide so they were examined more closely.

Directions: From I-95 take Exit 8 (Ridgeland) and head toward Savannah on US 278. Follow 278 all the way to Hilton Head Island. Then continue on 278 through the island until you get to Sea Pines Traffic Circle.

Proceed around the circle and exit at the second right turn. The Sea Pines gate is immediately ahead. There is an entry fee. The guard will give you directions to the Preserve parking area.

Sea Pines Forest Preserve
Beaufort County, SC
11/16/1996

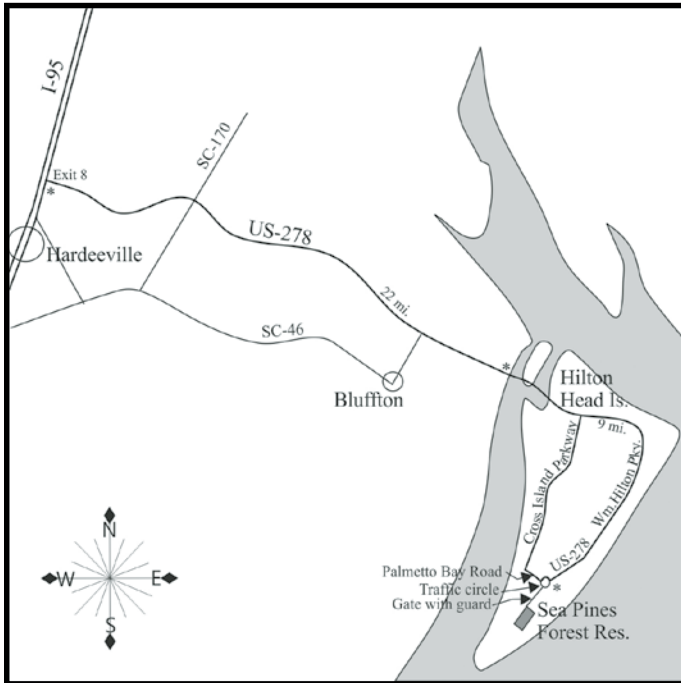
LICHENS

Cryptothecia rubrocincta
Usnea sp.

FLORA

Cinnamon Fern
Osmunda cinnamomea
Royal Fern
Osmunda regalis spectabilis
Bracken
Pteridium aquilinum
Netted Chain Fern
Woodwardia areolata
Sensitive Fern
Onoclea sensibilis sensibilis

Resurrection Fern
Pleopeltis polypodioides
michauxiana
Loiblolly Pine
Pinus taeda
Southern Red Cedar
Juniperus virginiana silicicola
Bald-cypress
Taxodium distichum
Cabbage Palmetto
Sabal palmetto
Saw Palmetto
Serenoa repens
Duckweed
Lemna valdiviana
Giant Cane
Arundinaria gigantea
Woods-grass
Opismenus hirtellus setarius
Common Cattail
Typha latifolia
Spanish-moss
Tillandsia usneoides



Golden Canna
Canna flaccida
Iris
Iris sp.
Catbrier
Smilax bona-nox
Whiteleaf Greenbrier
Smilax glauca
Bamboo-vine
Smilax laurifolia
Sarsaparilla-vine
Smilax pumila
Jackson-brier
Smilax smallii
Southern Magnolia
Magnolia grandiflora
Red Bay
Persea borbonia
Sassafras
Sassafras albidum
Virginia Snakeroot
Endodeca serpentaria
Witch-hazel
Hamamelis virginiana
Sweet Gum
Liquidambar styraciflua
False-nettle
Boehmeria cylindrica

Common Wax-myrtle
Morella cerifera
Water Oak
Quercus nigra
Willow Oak
Quercus phellos
Live Oak
Quercus virginiana
Mexican-tea
Dysphania ambrosioides
Southern Seashore-mallow
Kosteletzkya virginica virginica
Creeping Cucumber
Melothria pendula pendula
Black Willow
Salix nigra
Shining Fetterbush
Lyonia lucida
Sparkleberry
Vaccinium arboreum
Smooth Highbush Blueberry
Vaccinium corymbosum
Cinquefoil
Potentilla sp.
Bladderpod
Glottidium vesicarium
Wingstem Water-primrose
Ludwigia decurrens

Blackgum
Nyssa sylvatica
Dahoon
Ilex cassine cassine
Little Gallberry
Ilex glabra
American Holly
Ilex opaca opaca
Yaupon
Ilex vomitoria
Popcorn Tree
Triadica sebifera
Peppervine
Ampelopsis arborea
Virginia-creeper
Parthenocissus quinquefolia
Muscadine
Vitis rotundifolia rotundifolia
Red Maple
Acer rubrum
Red Buckeye
Aesculus pavia pavia
Winged Sumac
Rhus copallinum
Eastern Poison Ivy
Toxicodendron radicans radicans
Devil's-walking-stick
Aralia spinosa
Water-pennywort
Hydrocotyle sp.
Carolina Jessamine
Gelsemium sempervirens
Brazilian Vervain
Verbena brasiliensis
Beautyberry
Callicarpa americana
Florida Betony
Stachys floridana
Common Blue Curls
Trichostema dichotomum
Wild Olive
Osmanthus americanus
Cross-vine
Bignonia capreolata
Trumpet-creeper
Campsis radicans
Lobelia
Lobelia elongata
Partridge-berry
Mitchella repens
Silverling
Baccharis halimifolia
Showy Bur-marigold
Bidens laevis
Common Dog-fennel
Eupatorium capillifolium

Coastal Dog-fennel
Eupatorium compositifolium
Flat-topped Goldenrod
Euthamia caroliniana
Marsh Flat-topped Goldenrod
Euthamia hirtipes
Climbing Hempweed
Mikania scandens

FAUNA

Palamedes Swallowtail
Papilio palamedes
Green Treefrog
Hyla cinerea
Pied-billed Grebe
Podilymbus podiceps
Blue-winged Teal
Anas discors
Ruddy Duck
Oxyura jamaicensis
Killdeer
Charadrius vociferus
Turkey Vulture
Cathartes aura
Bald Eagle
Haliaeetus leucocephalus
Northern Harrier
Circus cyaneus
Broad-winged Hawk
Buteo platypterus
Red-bellied Woodpecker
Melanerpes carolinus
Downy Woodpecker
Picoides pubescens
Blue Jay
Cyanocitta cristata
American Crow
Corvus brachyrhynchos
Fish Crow
Corvus ossifragus
Carolina Chickadee
Parus carolinensis
Carolina Wren
Thryothorus ludovicianus
Eastern Bluebird
Sialia sialis
Yellow-rumped Warbler
Dendroica coronata
Red-winged Blackbird
Agelaius phoeniceus
Boat-tailed Grackle
Quiscalus major
Eastern Mole (sign)
Scalopus aquaticus
White-tailed Deer (tracks)
Odocoileus virginianus

Victoria Bluffs Heritage Preserve

02/28/2004

Located just minutes from Hilton Head Island, this 1,111-acre heritage preserve contains a good example of pine-saw palmetto flatwoods community. This community is widespread in Florida and Georgia but rare in South Carolina. This ecosystem is dominated

by Longleaf, Pond and Slash Pines in the overstory, with Saw Palmetto in the understory. This is one of the few areas in South Carolina where all four native palm relatives are present. The Needle Palm is at its northern limit. A very handsome plant, it was a treat to see. In

addition, closer to the river, is a classic maritime forest dominated by Live Oak, Cabbage Palm and Slash Pine. In addition there are about 35 wet depressions ranging in size from about a tenth of an acre to 60 acres. Historically this habitat would have experienced periodic fire which controlled the species that flourished. Today there are periodic controlled burns to emulate this process. In addition to the fascinating plant community the fauna is rich as well. One interesting insect that accidentally got shaken out of a small tree was a true bug, the Thread-legged Bug, who looks more like a Walking Stick, but has small wings. Our species of Walking Sticks are wingless. One sad note was the number of Swamp Bays, a member of the true laurel family, that were dying. This is one of the first areas in the state where laurel wilt disease has been found. It was the sad note to an otherwise beautiful day.

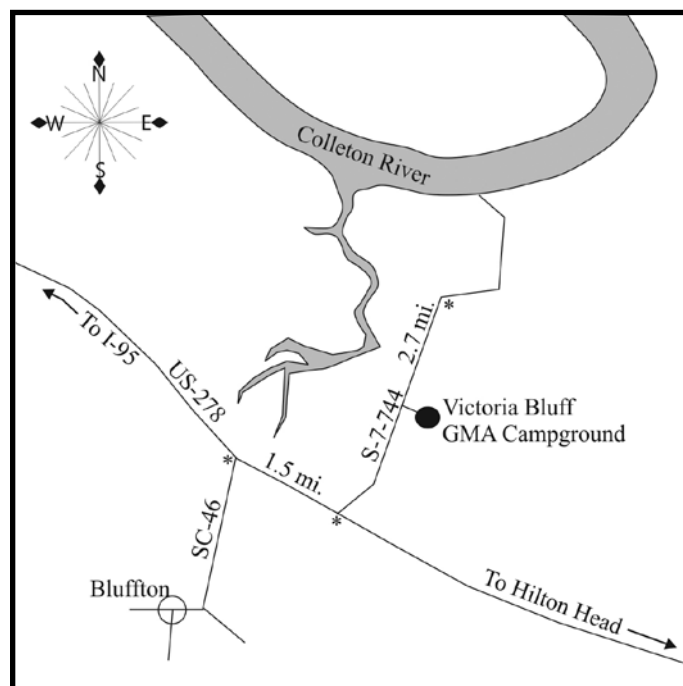
Directions: From I-95 take Exit 8 (Ridgeland) and head toward Savannah on US 278. Follow 278 as it turns toward Hilton Head. Note the intersection with SC 46. In 1.7 miles turn left onto Sawmill Creek Road (SSR7-744) following the signs toward Waddell Mariculture Center. This is opposite a large shopping center. Drive 1.3 miles down Sawmill Creek Road to a small parking area on the right. There is a sign for the heritage preserve. Or you can park on the side of the road for overflow parking.

**Victoria Bluffs
Heritage Preserve
Beaufort County, SC
02/28/2004**

FLORA

Bracken
Pteridium aquilinum
Virginia Chain Fern
Woodwardia virginica
Ebony Spleenwort
Asplenium platyneuron
Resurrection Fern
Pleopeltis polypodioides
michauxiana
Slash Pine
Pinus elliottii elliottii
Longleaf Pine
Pinus palustris
Pond Pine
Pinus serotina
Loblolly Pine
Pinus taeda
Eastern Red Cedar
Juniperus virginiana virginiana
Needle Palm
Rhaphidophyllum hystrix
Dwarf Palmetto
Sabal minor

Cabbage Palmetto
Sabal palmetto
Saw Palmetto
Serenoa repens
Duckweed
Lemna sp.
Common Rush
Juncus effusus solutus
Nutrush
Scleria sp.
Giant Cane
Arundinaria gigantea
Slender Spikegrass
Chasmanthium laxum
Spanish-moss
Tillandsia usneoides
Curlyleaf Yucca
Yucca filamentosa
Catbrier
Smilax bona-nox
Bamboo-vine
Smilax laurifolia
Jackson-brier
Smilax smallii
Swamp Bay
Persea palustris
Sassafras
Sassafras albidum
Sweet Gum
Liquidambar styraciflua



Mockernut Hickory
Carya alba
Pignut Hickory
Carya glabra
Common Wax-myrtle
Morella cerifera
Southern Red Oak
Quercus falcata
Laurel Oak
Quercus laurifolia
Water Oak
Quercus nigra
Live Oak
Quercus virginiana
Loblolly Bay
Gordonia lasianthus
St. Andrew's Cross
Hypericum hypericoides
Black Willow
Salix nigra
Dangleberry
Gaylussacia frondosa
Shining Fetterbush
Lyonia lucida
Sparkleberry
Vaccinium arboreum
Horsesugar
Symplocos tinctoria
Swamp Tupelo
Nyssa biflora
American Mistletoe
Phoradendron serotinum
serotinum
Dahoon
Ilex cassine cassine
Little Gallberry
Ilex glabra
American Holly
Ilex opaca opaca
Yaupon
Ilex vomitoria
Muscadine
Vitis rotundifolia rotundifolia

Red Maple
Acer rubrum
Eastern Poison Ivy
Toxicodendron radicans
radicans
Swamp Water-pennywort
Hydrocotyle ranunculoides
Carolina Jessamine
Gelsemium sempervirens
Cross-vine
Bignonia capreolata
Buttonbush
Cephalanthus occidentalis
Creeping Bluet
Houstonia procumbens
Partridge-berry
Mitchella repens

FAUNA

Marsh Periwinkle; Mud Snail
Littorina irrorata
Writing Spider (egg)
Argiope aurantia
Basilica Spider (egg)
Mecynogea lemniscata
Crab Spider
Tmarus angulatus
Thread-legged Bug
Emesaya brevipennis
Darkling Beetle
Neomida bicornis
Palmetto Tortoise Beetle
Hemisphaerota cyanea
Twig & Stem Weevil
Lechriops oculata
Spring Azure (butterfly)
Celastrina ladon
Southern Flannel Moth (cocoon)
Megalopyge opercularis
Gray Quaker (moth)
Orthosia alurina

Common Loon*Gavia immer***Double-crested Cormorant***Phalacrocorax auritus***Great Blue Heron***Ardea herodias***Laughing Gull***Larus atricilla***Bonaparte's Gull***Larus philadelphia***Forster's Tern***Sterna forsteri***Turkey Vulture***Cathartes aura***Northern Flicker***Colaptes auratus***Downy Woodpecker***Picoides pubescens***Blue Jay***Cyanocitta cristata***Tufted Titmouse***Parus bicolor***Carolina Chickadee***Parus carolinensis***White-breasted Nuthatch***Sitta carolinensis***House Wren***Troglodytes aedon***Carolina Wren***Thryothorus ludovicianus***Ruby-crowned Kinglet***Regulus calendula***American Robin***Turdus migratorius***Cedar Waxwing***Bombycilla cedrorum***Blue-headed Vireo***Vireo solitarius***Black-and-white Warbler***Mniotilta varia***Yellow-rumped Warbler***Dendroica coronata***Pine Warbler***Dendroica pinus***White-tailed Deer (tracks)**

(bones)

Odocoileus virginianus

(Clockwise starting bottom left.)

Little Blue Heron, *Egretta caerulea*, by Kim McManus.Showy Bur-marigold, *Bidens laevis*, by Kim McManus.Wood Stork, *Mycteria americana*, by Kim McManus.White Ibis, *Eudocimus albus*, by Kim McManus.