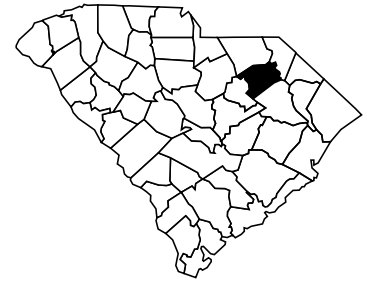


Darlington County:

Inner coastal plain and associated black water rivers and creeks provide the primary habitats in this county. In addition to small towns and suburban development there is a large amount of land in use for timber production. The wetlands adjacent to the watercourses provide the best protected habitats.



Sites Visited:

Great Pee Dee River Heritage Preserve

05/27/2000

Kalmia Gardens & Segars-McKinnon Heritage Preserve 05/26/2001 & 11/20/2004

Great Pee Dee River Heritage Preserve

05/27/2000

This preserve is one of the largest heritage preserves in the state, earning it identification by ornithologists as a “priority large area protection project”. The birds themselves identified the reasoning for this. By the end of the day the list was long including Swainson’s, Prothonotary, Hooded, Pine, and Parula Warblers, plus American Redstarts. Since this was during breeding season, this list is significant. Most of these species need large areas of undisturbed territory to successfully nest. Fortunately this preserve consists of 2725 acres with seven miles of riverfront. The endangered plant species found on the preserve were not in the areas where we explored on this day.

There is also a significant archaeological site on the preserve. Both the eighteenth century home of Johannes Kolb, located on an oxbow of the Great Pee Dee, and artifacts from Native Americans that date back approximately 12,000 years have been found here.

Directions: From Darlington, take SC 34 east for approximately 7 miles to the community of Mechanicsville. Turn left onto North Charleston Road (SR 16-35) and go about 1.6 miles and turn right onto the access road which is clearly marked. You must sign in at the unlocked gate. If using I-95 to access the preserve, use Exit 170 and follow North Charleston Road north until you reach SC 34, then follow the above directions.

**Great Pee Dee River
Heritage Preserve
Darlington Co., SC
May 27, 2000**

LICHENS

Graphis scripta
Phaeographina explicans
Bacidia schweinitzii
Pyrrhospora varians
Pyrrhospora russula
Pertusaria subpertusa
Pertusaria texana

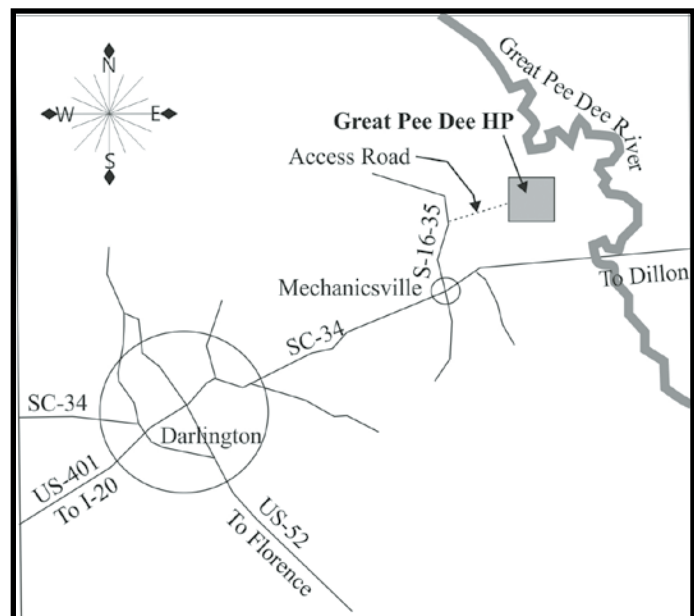
Maronea constans
Lecanora albella var. *rubescens*
Lecanora varia
Lecanora hybocarpa
Lecanora argentata
Lecanora caesiorubella subsp. *prolifera*
Phlyctis willeyi
Tephromela atra
Hypotrachyna livida
Parmotrema hypotropum
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema rampoddense

Punctelia rudecta
Rimelia reticulata
Rimelia subisidiosa
Ramalina americana
Usnea rubicunda
Usnea strigosa
Buellia caloosensis
Physcia aipolia
Heterodermia speciosa
Caloplaca sp.
Pyrenula thelamorpha
Pyrenula septicollaris
Arthonia sp.
Trypethelium mastoideum
Porina nucula
Leproloma membranaceum

FLORA

Ebony Spleenwort
Asplenium platyneuron
Southern Lady Fern
Athyrium asplenoides
Sensitive Fern
Onoclea sensibilis sensibilis

Resurrection Fern
Pleopeltis polypodioides michauxiana
Loblolly Pine
Pinus taeda
Bald-cypress
Taxodium distichum
Green Dragon
Arisaema dracontium
Giant Cane
Arundinaria gigantea
River Oats
Chasmanthium latifolium
Two-flower Melic
Melica mutica
Spanish-moss
Tillandsia usneoides
Common Greenbrier
Smilax rotundifolia
Common Pawpaw
Asimina triloba
Lizard's-tail
Saururus cernuus
Sycamore
Platanus occidentalis occidentalis



Winged Elm <i>Ulmus alata</i>	Eastern Redbud <i>Cercis canadensis canadensis</i>	Common Whitetail <i>Plathemis lydia</i>	Northern Bobwhite <i>Colinus virginianus</i>
American Elm <i>Ulmus americana</i>	Sericea <i>Lespedeza cuneata</i>	Ebony Jewelwing <i>Calopteryx maculata</i>	Yellow-billed Cuckoo <i>Coccyzus americanus</i>
Southern Hackberry <i>Celtis laevigata</i>	American Holly <i>Ilex opaca opaca</i>	Blue-fronted Dancer Damselfly <i>Argia apicalis</i>	Ruby-throated Hummingbird <i>Archilochus colubris</i>
Red Mulberry <i>Morus rubra</i>	Supplejack <i>Berchemia scandens</i>	Six-spotted Tiger Beetle <i>Cicindela sexguttata</i>	Red-bellied Woodpecker <i>Melanerpes carolinus</i>
False-nettle <i>Boehmeria cylindrica</i>	Virginia-creeper <i>Parthenocissus quinquefolia</i>	Tiger Beetle <i>Cicindela sp.</i>	Pileated Woodpecker <i>Dryocopus pileatus</i>
Greenfruit Clearweed <i>Pilea pumila</i>	Muscadine <i>Vitis rotundifolia rotundifolia</i>	Jewel Beetle <i>Buprestis rufipes</i>	Great Crested Flycatcher <i>Myiarchus crinitus</i>
Mockernut Hickory <i>Carya alba</i>	Box Elder <i>Acer negundo</i>	Flat Bark Beetle <i>Laemophloeus sp.</i>	Acadian Flycatcher <i>Empidonax virescens</i>
Water Hickory <i>Carya aquatica</i>	Eastern Poison Ivy <i>Toxicodendron radicans radicans</i>	Zebra Swallowtail <i>Eurytides marcellus</i>	Tufted Titmouse <i>Parus bicolor</i>
White Oak <i>Quercus alba</i>	Sanicle <i>Sanicula canadensis</i>	Eastern Tiger Swallowtail <i>Papilio glaucus</i>	Carolina Chickadee <i>Parus carolinensis</i>
Overcup Oak <i>Quercus lyrata</i>	Brazilian Vervain <i>Verbena brasiliensis</i>	Cabbage White (butterfly) <i>Pieris rapae</i>	Carolina Wren <i>Thryothorus ludovicianus</i>
Swamp Chestnut Oak <i>Quercus michauxii</i>	White Ash <i>Fraxinus americana</i>	American Snout (butterfly) <i>Libytheana carinenta</i>	White-eyed Vireo <i>Vireo griseus</i>
Water Oak <i>Quercus nigra</i>	Carolina Wild-petunia <i>Ruellia caroliniensis</i>	Variegated Fritillary <i>Euptoieta claudia</i>	Red-Eyed Vireo <i>Vireo olivaceus</i>
Cherrybark Oak <i>Quercus pagoda</i>	Cross-vine <i>Bignonia capreolata</i>	Pearl Crescent (butterfly) <i>Phyciodes tharos</i>	Prothonotary Warbler <i>Protonotaria citrea</i>
Black Oak <i>Quercus velutina</i>	Trumpet-creeper <i>Campsis radicans</i>	American Lady (butterfly) <i>Vanessa virginiensis</i>	Northern Parula <i>Parula americana</i>
River Birch <i>Betula nigra</i>	Buttonbush <i>Cephalanthus occidentalis</i>	Red Admiral <i>Vanessa atalanta</i>	Pine Warbler <i>Dendroica pinus</i>
American Hornbeam <i>Carpinus caroliniana</i>		Common Buckeye <i>Junonia coenia</i>	Hooded Warbler <i>Wilsonia citrina</i>
Yellow Passionflower <i>Passiflora lutea lutea</i>	FAUNA	Carolina Satyr (butterfly) <i>Hermeuptychia sosybius</i>	Swainson's Warbler <i>Limnothlypis swainsonii</i>
Swamp Cottonwood <i>Populus heterophylla</i>	Red Imported Fire Ant <i>Solenopsis invicta</i>	Silver-spotted Skipper <i>Epargyreus clarus</i>	American Redstart <i>Setophaga ruticilla</i>
Horsesugar <i>Symplocos tinctoria</i>	Carpenter Ant <i>Camponotus sp.</i>	Southern Cricket Frog <i>Acris gryllus</i>	Northern Cardinal <i>Cardinalis cardinalis</i>
Wild Crab Apple <i>Malus angustifolia</i>	Swamp Darner <i>Epieaschna heros</i>	Gray Treefrog (call) <i>Hyla chrysoscelis/ versicolor</i>	Summer Tanager <i>Piranga rubra</i>
Indian-strawberry <i>Potentilla indica</i>	Prince Baskettail <i>Epicordulia princeps</i>	Box Turtle <i>Terrapene carolina</i>	White-tailed Deer (tracks) <i>Odocoileus virginianus</i>
Hog-peanut <i>Amphicarpaea bracteata</i>	Great Blue Skimmer <i>Libellula vibrans</i>	Red-shouldered Hawk <i>Buteo lineatus</i>	

Kalmia Gardens and Segars-Mckinnon Heritage Preserve

05/26/2001 & 11/20/2004

These two sites, which are connected by a footbridge over Black Creek, represent literally the high and the low. Kalmia Gardens, a botanical complex, is on the south side of Black Creek which in this area is the high bluff side. The heritage preserve is on the low, floodplain side of the creek. Between them they provide a fascinating overview of creekside habitats in the meeting of the sandhills and the coastal plain. Huge American Holly and Atlantic White Cedar are found on the bluff, along with *Pinckney pubens* and of course *Kalmia*, better known as Mountain Laurel. The creek hosts a large diversity of dragonflies and damselflies, some of which are brightly metallic in appearance. On the Segars-McKinnon side there are more Atlantic White Cedar, along with

the deciduous Swamp Holly and Bald Cypress. The November visit also rewarded us with a look at a Winter Wren, a shy winter visitor.

Directions: Both Kalmia Gardens and Segars-McKinnon Heritage Preserve are accessed from Kalmia Gardens. The gardens are accessed from business SC 151 on the northwest side of Hartsville. If approaching Hartsville from US 15, turn north onto 151. In about 3 miles there is a sign to the gardens. That street deadends directly opposite the Kalmia Gardens entrance. If approaching from US 1 turn south onto SC 151 at McBee. It is about 11 miles to the intersection where Business SC 151 bears off to the left. It is about three-quarters of a mile to the Kalmia entrance on the left.

Kalmia Gardens
Darlington Co., SC
May 26, 2001

Segars-McKinnon
Heritage Preserve
Darlington Co., SC
November 20, 2004

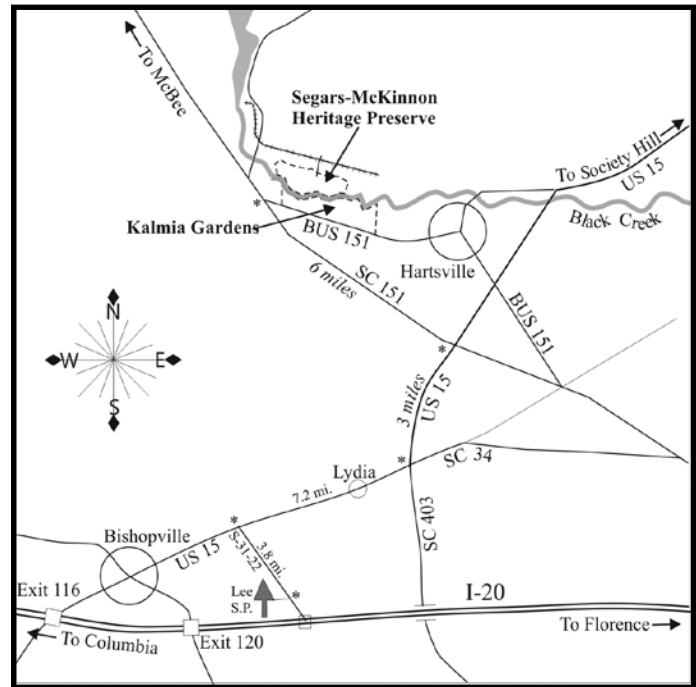
LICHENS

Graphis scripta
Graphis afzelii
Phaeographis dendritica
Bacidia schweinitzii
Pertusaria amara
Pertusaria texana
Pertusaria multipunctoides
Lecanora varia
Lecanora hybocarpa
Lecanora caesiorubella subsp. prolifera
Hypotrachyna livida
Parmotrema hypotropum
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema tinctorum
Flavoparmelia caperata
Rimelia reticulata
Rimelia subisidiosa
Usnea ceratina
Usnea mutabilis
Usnea rubicunda
Usnea strigosa
Heterodermia albicans
Heterodermia casarettiana
Heterodermia speciosa
Xanthoria elegans
Arthonia sp.
Trypethelium mastoideum
Leproloma membranaceum
Chrysothrix candelaris

FLORA

Spoonleaf Yucca
Yucca filamentosa filamentosa
Southern Red Oak; Spanish Oak
Quercus falcata falcata
Black Tupelo; Blackgum
Nyssa sylvatica sylvatica
Common Ground-pine
Dendrolycopodium obscurum
Cinnamon Fern
Osmunda cinnamomea
Royal Fern
Osmunda regalis spectabilis
Bracken
Pteridium aquilinum
Netted Chain Fern
Woodwardia areolata
Virginia Chain Fern
Woodwardia virginica
Ebony Spleenwort
Asplenium platyneuron
Southern Lady Fern
Athyrium asplenoides
Christmas Fern
Polystichum acrostichoides
Resurrection Fern
Pleopeltis polypodioides

michauxiana
Shortleaf Pine
Pinus echinata
Longleaf Pine
Pinus palustris
Pond Pine
Pinus serotina
Loblolly Pine
Pinus taeda
Atlantic White-cedar
Chamaecyparis thyoides
Eastern Red Cedar
Juniperus virginiana virginiana
Pond-cypress
Taxodium ascendens
Bald-cypress
Taxodium distichum
Golden Club
Orontium aquaticum
Bogmoss
Mayaca fluviatilis
Pipewort
Eriocaulon sp.
Giant Cane
Arundinaria gigantea
American Bur-reed
Sparganium americanum
Cattail
Typha sp.
Spanish-moss
Tillandsia usneoides
Curlyleaf Yucca
Yucca filamentosa
Mound-lily Yucca
Yucca gloriosa
Whiteleaf Greenbrier
Smilax glauca
Bamboo-vine
Smilax laurifolia
Tulip-tree
Liriodendron tulipifera
Southern Magnolia
Magnolia grandiflora
Bigleaf Magnolia
Magnolia macrophylla
Sweetbay
Magnolia virginiana
Small-flowered PawPaw
Asimina parviflora
Sweet-shrub
Calycanthus floridus
Red Bay
Persea borbonia
Swamp Bay
Persea palustris
Sassafras
Sassafras albidum
Lizard's-tail
Saururus cernuus
Star-anise
Illicium sp.
Broadleaf Pondlily
Nuphar advena
White Water-lily
Nymphaea odorata odorata
Yellowroot
Xanthorhiza simplicissima
Witch-hazel
Hamamelis virginiana
Sweet Gum
Liquidambar styraciflua



Winged Elm
Ulmus alata
Southern Hackberry
Celtis laevigata
Red Mulberry
Morus rubra
Pocosin Bayberry
Morella carolinensis
Common Chinquapin
Castanea pumila
American Beech
Fagus grandifolia
White Oak
Quercus alba
Scarlet Oak
Quercus coccinea
Southern Red Oak
Quercus falcata
Laurel Oak
Quercus laurifolia
Blackjack Oak
Quercus marilandica marilandica
Water Oak
Quercus nigra
Cherrybark Oak
Quercus pagoda
Willow Oak
Quercus phellos
Post Oak
Quercus stellata
Black Oak
Quercus velutina
Tag Alder
Alnus serrulata
American Hornbeam
Carpinus caroliniana
Loblolly Bay
Gordonia lasianthus
Ti-ti
Cyrilla racemiflora
Coastal Sweet Pepperbush
Clethra alnifolia

Pipe-plant
Agarista populifolia
Spotted Wintergreen
Chimaphila maculata
Trailing Arbutus
Epigaea repens
Mountain Laurel
Kalmia latifolia
Coastal Doghobble
Leucothoe axillaris
Shining Fetterbush
Lyonia lucida
Sourwood
Oxydendrum arboreum
Piedmont Azalea
Rhododendron canescens
Gorge Rhododendron
Rhododendron minus
Sparkleberry
Vaccinium arboreum
Smooth Highbush Blueberry
Vaccinium corymbosum
Elliott's Blueberry
Vaccinium elliotii
Southern Highbush Blueberry
Vaccinium formosum
Southern Blueberry
Vaccinium tenellum
Galax
Galax urceolata
American Persimmon
Diospyros virginiana
American Snowbell
Styrax americanus
Horsesugar
Symplocos tinctoria
Virginia-willow
Itea virginica
Red Chokeberry
Aronia arbutifolia
Wild Crab Apple
Malus angustifolia
Flowering Dogwood
Cornus florida

Swamp Tupelo
Nyssa biflora
Blackgum
Nyssa sylvatica
Hearts-a-burstin'-with-love
Euonymus americanus
Dahoon
Ilex cassine cassine
Big Gallberry
Ilex coriacea
Little Gallberry
Ilex glabra
Smooth Winterberry
Ilex laevigata
American Holly
Ilex opaca opaca
Yaupon
Ilex vomitoria
Virginia-creeper
Parthenocissus quinquefolia
Muscadine
Vitis rotundifolia rotundifolia
Bladdernut
Staphylea trifolia
Red Maple
Acer rubrum
Red Buckeye
Aesculus pavia pavia
Painted Buckeye
Aesculus sylvatica
Eastern Poison Ivy
Toxicodendron radicans radicans
Carolina Jessamine
Gelsemium sempervirens
Climbing Dogbane
Trachelospermum difforme
Beautyberry
Callicarpa americana
Cross-vine
Bignonia capreolata
Trumpet-creeper
Campsis radicans
Southern Catalpa
Catalpa bignonioides
Northern Catalpa
Catalpa speciosa

Partridge-berry
Mitchella repens
Pinckneya
Pinckneya bracteata
Common Elderberry
Sambucus canadensis
Mapleleaf Viburnum
Viburnum acerifolium
Arrow-wood
Viburnum dentatum
Southern Wild Raisin
Viburnum nudum
Smooth Arrow-wood
Viburnum recognitum
Lemon-yellow Lepiota (fungus)
Lepiota lutea
Gill Fungus
Amanita spp.
Red Russula
Russula spp.
Blewit Gill Fungus
Clitocybe spp.

FAUNA

Sponge
Homaxinella rudis
Marbled Orb-weaver
Araneus marmoreus
Six-spotted Fishing Spider
Dolomedes triton
Bush Katydid
Scudderia sp.
Green Stink Bug
Nezara viridula
Woolly Alder Aphid
Prociphilus tessellatus
Common Whitetail
Plathemis lydia
Sparkling Jewelwing Damselfly
Calopteryx dimidiata
Ebony Jewelwing
Calopteryx maculata
American Rubyspot
Hetaerina americana
Blue-tipped Dancer (damselfly)
Argia tibialis
Bluet (damselfly)
Enallagma sp.
Six-spotted Tiger Beetle
Cicindela sexguttata
Woodland Ground Beetle
Pterostichus sculptus
Whirligig Beetle
Dineutus sp.
Patent-leather Beetle
Odontotaenius disjunctus
June Beetle
Phyllophaga crenulata
Shining Leaf Chafer
Anomala undulata
Rhinoceros Beetle (larva)
Strategus antaeus
Jewel Beetle
Brachys tessellatus
Darkling Beetle
Ulmoma mentalis
Comb-clawed Beetle
Isomira iowensis
False Blister Beetle
Oxycopsis sp.
Flower Longhorn
Brachyleptura vagans
American Lady (butterfly)
Vanessa virginiensis
Silver-spotted Skipper
Epargyreus clarus
Flannel Moth (cocoon)
Family Megalopygidae
Green Anole
Anolis carolinensis
Mississippi Kite
Ictinia mississippiensis
Yellow-billed Cuckoo
Coccyzus americanus
Red-bellied Woodpecker
Melanerpes carolinus
Red-headed Woodpecker
Melanerpes erythrocephalus
Northern Flicker
Colaptes auratus
Great Crested Flycatcher
Myiarchus crinitus

Acadian Flycatcher
Empidonax virescens
Blue Jay
Cyanocitta cristata
Tufted Titmouse
Parus bicolor
Carolina Chickadee
Parus carolinensis
Winter Wren
Troglodytes troglodytes
Carolina Wren
Thryothorus ludovicianus
Blue-gray Gnatcatcher
Polioptila caerulea
Wood Thrush
Hylocichla mustelina
American Robin
Turdus migratorius
Gray Catbird
Dumetella carolinensis
Brown Thrasher
Toxostoma rufum
Red-Eyed Vireo
Vireo olivaceus
Prothonotary Warbler
Protonotaria citrea
Northern Parula
Parula americana
Yellow-throated Warbler
Dendroica dominica
Pine Warbler
Dendroica pinus
Louisiana Waterthrush
Seiurus motacilla
Northern Cardinal
Cardinalis cardinalis
Summer Tanager
Piranga rubra
American Goldfinch
Carduelis tristis
Gray Squirrel
Sciurus carolinensis
Beaver
Castor canadensis (dead)



Mississippi Kite, *Ictinia mississippiensis*, by Kim McManus.



Carolina Wild-petunia, *Ruellia caroliniensis*, by Kim McManus.