



December 2007

Hi SCAN,

We have had two consecutive weekend trips and I want to thank again, Buddy Johnson, Mayor of Little Mountain, for inviting us (and feeding us great BBQ!) again to explore the geology of the mountain on Nov 10. For our regular trip much thanks to director Gordon Murphy and the 17 others who attended the Little Pee Dee State Park and Bay Heritage Preserve excursion. Gordon also "led" us afterwards to an excellent and now highly recommended Schuler's BBQ restaurant near Latta off I-95 Exit 181A where we finished up after sunset. Two great weekends in a row! Actually many of our group have spent the last four weekends together with the closely scheduled OCT/NOV trips and planning meeting.

The first part of our Horry County trip just outside of Dillion, started at an unusual xeric white sand "terrane" which is the remnant of alluvial deposits by the ancient meanderings of the Little Pee Dee River now probably over 2000 feet to the south of these areas. The Heritage site is dotted with old but small Loblolly, Pond Pine Turkey Oak, Longleaf, lichen, tenacious Selaginella and other endemic shrubs like Lyonia. The reflections from the sand were very bright and one can imagine the heat that is there in mid-summer. We also explored a pocosin bay that was dry due the drought.

Our second stop was the sand rim of an ancient and non-distinct Carolina Bay where some of us went deep into the dense forested and shrub-filled interior where you could easily be disoriented fast. There they found some old, large Gordonia (Loblolly bay). I could still hear the faint songs of Jumping Bush Crickets, since the temps were in the 60's in the afternoon. Our last stop was at the back end of the park's Beaver Pond nature trail where we had the most bird sightings of the day like Red-bellied and Pileated Woodpeckers, Cedar Waxwings and Kingfishers. The pond is lined with cypress and tupelo and it was a beautiful vista as we spotted birds perched on the trees on the opposite shore while altocumulus clouds started to fill the afternoon sky. There was a great variety of botanical delights in this wetland area and throughout our day, which Tom and Mary will be knowledgeably listing in the newsletter for your enjoyment and research.

It was a fun, interesting and weather wise mild day to explore this rich ecology of the SC coastal plain. We have had a change to the Dec trip and we will be going back to a place many of us know well, but always enjoy...Forty Acre Rock HP. Hope to see you there; always something to see and learn on our trips. The like-minded company is an added bonus also! We hope 2008 will be another great SCAN year.

Jules Fraytet / SCAN President 2007

PS. Please note that membership renewals for 2008 are highly appreciated. If possible, please renew by mail. Doing so will reduce the burden placed upon the Treasurer and the Secretary at the Annual Meeting in January. A renewal form is included with this newsletter for your potential convenience. Thanks for your continued support of SCAN.

Forty Acre Rock Heritage Preserve
Lancaster County, SC
December 8, 2007, 10:30 AM
(Lynn Smith)

This heritage preserve covers one of the most diverse small areas in the state. It includes a large exfoliating granitic monadnock, which contrasts with the type of monadnock found at Little Mountain. The rock, which only has about 14 acres exposed despite its name, has the classic vernal solution pools inhabited by very rare plants in the early spring. Given the drought and time of year, those will most likely be empty of anything obvious other than gravel. When water is flowing there are small waterfalls off each part of the rock. Behind those are small caves, suitable for children. In the lower part of the preserve there is a beaver pond (usually with beavers), the flood plain of a Piedmont creek (Flat Creek), and its bordering bluff that is one of the largest basaltic dikes (Flat Creek Dike) in the eastern United States. This flood plain at the base of the dike has neutral to alkaline soils leading to more rare plants, especially spring ephemerals. One tidbit of information is that the rock is registered as a National Natural Landmark.

There are two parking areas, one at the base of the rock and the other at the top of the rock. In the early morning, birding is often good, especially at and near the beaver pond (i.e., near the lower parking area). During the warmer parts of the day, the rock generates good thermals leading to good sightings of soaring birds (i.e., near the upper parking area). Birders may want to come early and bird around the beaver pond before we gather at the top of the rock at 10:30 AM. The plan will be to explore the rock top, then move down to the lower area for the plants there. There are trails that connect the areas. So, those who want to walk downward, from the rock's top, can arrange a carpool to get back to their cars. Or, vice-versa, you can walk from the lower parking area to the upper parking area. Trails are sometimes marked or unmarked. So, if you are unfamiliar with the site, you may want to walk with someone who knows the site.

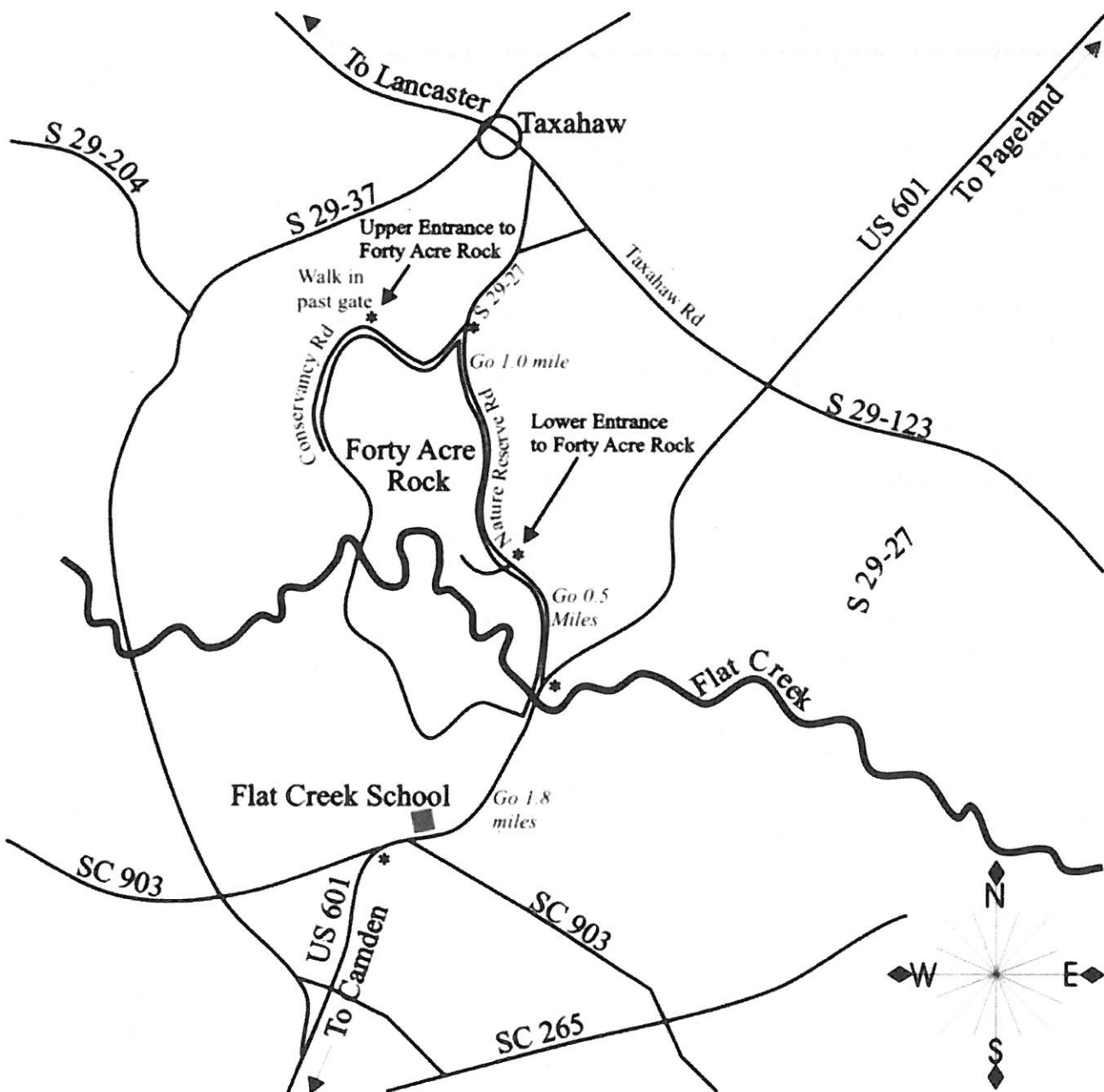
PLUS a Bonus! Red Smith has arranged for those of us who wish to do so, to visit the Charlotte Astronomers Observatory which is just about two air-miles from the top of the rock. Those who wish to eat in Kershaw at Gus' House of Pizza should plan to head back-out for a couple more hours of night sky viewing. One caveat. There is no heat at the observatory. If the weather is good for viewing, it will be clear and cold, so plan on lots of extra layers of clothing including hats, gloves and extra warm foot gear. Trust me, this is not an exaggeration! Maps, to get to the observatory, will be passed out at the fieldtrip. We will owe Gayle Rigsby of Charlotte a special thank you for doing this for us. The electronic version of this newsletter will include a list of useful websites you might want to check out before December 8. The astronomers have a website at www.charlotteastronomers.org.

Additional information regarding astronomy appears on pages 4 & 5.

South Carolina Association of Naturalists: Jules Fraytet, President; Lynn Smith, Vice-president; Ben Gregory, Secretary; Greg Mancini, Treasurer; Tom Jones & Mary G. Douglass-Jones, Flora/Fauna Database Managers; Dee Hope, Historian, Regional Directors: Jan Ciegler (north), Johnny Hardaway & Wayne Grooms (south), Gordon Murphy (east), Eva & Sam Pratt (west), Jerry & Pat Bright (central). Newsletter published monthly; contact Ben Gregory, scan_editor_brg@bellsouth.net or 704-372-8532. Yearly membership is \$12. Send check to SCAN, c/o Greg Mancini, P.O. Box 5651, Columbia, SC 29250-5651. Fieldtrips open to visitors, and children must be over age 15. SCAN is a nonprofit 501(c)(3) in the state of South Carolina. (www.scnaturalists.org)

Directions: From Camden, go north on US 521 & 601 to the town of Kershaw. Follow Business 601 through town. DO NOT TAKE the bypass. Go straight through town until 601 turns right. Turn right and continue north. At the small community of Flat Creek, SC 903 will join from the left. You stay straight. It is about 1.8 miles on down a long hill and across Flat Creek to where Nature Preserve Road turns right. There is a sign to Forty Acre Rock. If you come early to bird, the lower parking area is on your left in about ½ mile. To get to the parking area at the top of the rock, continue on for a total of about 1.5 miles and watch for Conservancy Road on the left. That road is now paved. Continue down Conservancy Road to the end (it is gated past there) to a parking area along the left side. Park, and get ready to hike. No restrooms on the preserve. There are a couple of gas station-convenience stores at the 903 intersection with restrooms or back in Kershaw. Be at the parking area at the head of the rock no later than 10:30 AM. Otherwise just follow the road on foot down to the actual head of the rock. Bring lunch and lots of liquids. The rock is a dry place when the sun is shining.

Map, Forty Acre Rock Heritage Preserve (Virginia Winn)



Hardcopy & Email Newsletters, plus Email Updates, Ben Gregory

For the past three months, I have been emailing various types of information to the SCAN membership, as opposed to including these items in our newsletter; I've also been emailing the newsletter. Some of the email-information was time sensitive, and thus could not be included in our newsletters; e.g., fieldtrips and lectures. Time sensitive information will always be problematic with regard to a hardcopy newsletter. Additionally, some information was too expensive to include in our newsletter; e.g., color photos. Furthermore, some information was too robust; e.g., PDF files about wildlife (plants and animals) at upcoming fieldtrip sites.

SCAN's computer and assorted components were down for the past three months. So, email was a critically important tool that allowed me to send information to you; in some cases, email was the only way I could communicate with you.

Your email address is very important and allows me to communicate with you in both critical and essential ways. When I communicate with you via email, your email address is encoded so that others do not have access to it.

The SCAN bylaws restrict SCAN members from using our membership list for any purpose except for personal communication between other members.

Please notify me of any email and/or house address changes. Ben Gregory, SCAN Secretary, 2120 N. Davidson St., #217, Charlotte, NC 28205, scan_editor_brg@bellsouth.net

Time to Renew Your Membership, Ben Gregory

Early renewals make it easier for me and Greg Mancini (SCAN Treasurer) to handle renewals as opposed to being overwhelmed by renewals at the Annual Meeting. Please see renewal form on page 6. Please note that email addresses are very important for SCAN communications.

Things You May See During Observatory Fieldtrip on 12-8-07, Red and Lynn Smith

Several planets (but not Saturn). Possibly Jupiter but it will be low on the horizon and viewing will not be good. Uranus and Neptune – but they will just look like dots.

Hot, massive, short-lived, young stars – bluish-white.

Reddish stars, usually older stars with lower masses, smaller than our sun.

Red Giants, stars like our sun near the end of their life – after they've use up all the hydrogen fuel in the core, they expand, first to about the orbit of Mercury. The surface cools as they expand giving the red color.

Red Super Giant, next to the last phase in the death of a star like our sun. It will expand past Earth's orbit.

Planetary nebula – hot gasses expelled as the last gasp of a star like our sun reaches the final end of its life.

Blue Giant or Blue Super Giant, very large, hot star.

Open Cluster, cluster of young stars.

Globular Cluster, cluster of very old stars.

Spiral Galaxy – similar to the Milky Way.

Quasar – not likely but possible. The brightest object in the universe caused by matter (gas, planets & stars) falling into a huge Black Hole.

Astronomical Websites, Red & Lynn Smith

www.skymaps.com, free sky-maps each month. Good version for field viewing (stars are dark dots on white background). To use a star-map after you've printed it, hold it over our head with North on the map facing north.

weatherunderground.com, click on astronomy. Normal printing is white stars on dark background - uses lots of ink and hard to see in the field. But good for looking at before going out. Shows planets that will be visible.

www.heavens-above.com, gives viewing times and directions for the international space station and other satellites. Well worth taking a look if you've never seen the space station.

http://antwrp.gsfc.nasa.gov/apod/astropix.html, Astronomy. Picture of the day excellent photos of a wide variety of celestial phenomena.

http://micro.magnet.fsu.edu/primer/java/scienceopticsu/powersof10/index.html, a fun site that takes you from distant space to our galaxy in jumps of powers of 10 ultimately getting down to artists conception of quarks making up protons and neutrons in the nucleus of an atom.

www.spacew.com/sunnow/, real-time images of sun in Hydrogen alpha shows "storms" in the sun's atmosphere. But the sun is in a quiet period right now. There have been no sunspots for months but a small one just appeared but is rapidly fading. Sunspots run on an 11-year cycle and the number should start increasing sometime next year.

http://sohowww.nascom.nasa.gov/sunspots/, gives better view of sunspots themselves.

www.nasa.gov, NASA home page

www.spaceweather.com, good site with lots of info on things visible on Earth or of import.

Slide Show at Annual Meeting, (Info, Jerry Bright)

Each year, at this time, Jerry begins the process of creating a SCAN slide show for our Annual Meeting in January. Members can bring their photos to an outing or send a CD to him. If there are just a few shots, they can be emailed to him. A reminder from Jerry – for the digital camera users, reset your camera clocks for EST. Jerry Bright, 4661 Oakwood Road, Columbia, SC 29206 (jbright@sc.rr.com).

Quiet Reflections: The Clemson University Forest, by Tommy Wyche & John Garton (info, Janie Marlow & Eva Pratt; also probably from a Clemson University Press Release)

John Garton is a SCAN member. Just out, in time for holiday gift-giving, is a beautiful book showcasing the natural and cultural history of the Clemson Forest. Home to more than 900 species of plants and 195 species of birds, the National Audubon Society has designated this 17,500-acre tract as an important bird area because it preserves essential habitat for threatened and endangered species. To order: 888-772-2665, or <http://dprod4.clemson.edu/olos/asp/searchmain.asp>

SCAN: New and Renewal Membership Form

(Members are age 15 or older)

Please, always notify SCAN Secretary of house and email address changes.

Today's Date: _____ New Member(s) #: _____ Renewing Member(s) #: _____

Dues: \$12.00 per calendar year due by the January annual meeting
\$5.00 per calendar year for each additional member at the same address
(Note: Persons joining in July or later pay 1/2 price.)

Name(s): 1. _____ 2. _____
3. _____ 4. _____

Mailing Address: Street/PO Box _____
City _____ State _____ Zip Code _____

Email Addresses: 1. _____
2. _____

Phone #: (_____) _____

Mail Renewal form to: SCAN, PO Box 5651, Columbia, SC 29250-5651

EMAIL COMMUNICATION: Email has become a fast and reliable way for the SCAN Secretary to communicate with members; e.g., time sensitive information; last minute changes to fieldtrip info; during computer/software failures. SCAN Secretary, Ben Gregory, scan_editor_brg@bellsouth.net, 704-372-8532.

Report of the 2007 Nominating Committee, Lynn Smith

The 2007 Nominations for 2008 Officers Committee consisting of Lynn Smith and Virginia Winn, with major assistance from several other people, presents this list of nominees for officers for the 2008 SCAN year. At the annual meeting, other nominations may be presented from the floor; however, the bylaws require that the nominee has given permission in advance for his name to be placed in nomination.

The committee's nominees are:

President – Gordon Murphy
Vice-president – Pat Bright
Secretary – Ben Gregory
Treasurer – Greg Mancini
Historian – Dee Hope
Database Manager – Jan Ciegler

Regional Directors

North – Jan Ciegler
South – Wayne Grooms and Johnny Hardaway
East -- Chris Manuse
West – Claudia Houck and Lynn Smith
Central – John Cely

Cheraw State Park – Chesterfield Co., SC – October 27, 2007

This list was produced by SCAN from sightings supplied by SCAN members and is subject to revision as needed. An asterisk (*) indicates a new sighting for SCAN. Send any changes or corrections to Tom Jones & Mary Garland Douglass-Jones at prestoea@bellsouth.net. Please indicate exactly to which flora/fauna list you are referring. Thank you.

FLORA

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| <p>Carolina Bog Clubmoss
<i>Pseudolycopodiella caroliniana</i></p> <p>Spiny Spikemoss
<i>Selaginella acanthonota</i></p> <p>Royal Fern
<i>Osmunda regalis spectabilis</i></p> <p>Bracken
<i>Pteridium aquilinum</i></p> <p>Shortleaf Pine
<i>Pinus echinata</i></p> <p>Longleaf Pine
<i>Pinus palustris</i></p> <p>Pond Pine
<i>Pinus serotina</i></p> <p>Loblolly Pine
<i>Pinus taeda</i></p> <p>Atlantic White-cedar
<i>Chamaecyparis thyoides</i></p> <p>Eastern Red Cedar
<i>Juniperus virginiana virginiana</i></p> <p>Pond-cypress
<i>Taxodium ascendens</i></p> <p>Bald-cypress
<i>Taxodium distichum</i></p> <p>Common Dayflower
<i>Commelina communis communis</i></p> <p>Threeway Sedge
<i>Dulichium arundinaceum arundinaceum</i></p> <p>Horsetail Spikerush
<i>Eleocharis equisetoides</i></p> <p>Woolgrass Bulrush
<i>Scirpus cyperinus</i></p> <p>Slender Spikegrass
<i>Chasmanthium laxum</i></p> <p>Eastern Beard Grass
<i>Gymnopogon ambiguus</i></p> <p>Giant Plume Grass
<i>Saccharum giganteum</i></p> <p>Catbrier
<i>Smilax bona-nox</i></p> <p>Whiteleaf Greenbrier
<i>Smilax glauca</i></p> <p>Bamboo-vine
<i>Smilax laurifolia</i></p> <p>Common Greenbrier
<i>Smilax rotundifolia</i></p> <p>Water-spider Orchid
<i>Habenaria repens</i></p> | <p>Nodding Ladies'-tresses
<i>Spiranthes cernua</i></p> <p>Tulip-tree
<i>Liriodendron tulipifera</i></p> <p>Sweetbay
<i>Magnolia virginiana</i></p> <p>Swamp Bay
<i>Persea palustris</i></p> <p>Sassafras
<i>Sassafras albidum</i></p> <p>Broadleaf Pondlily
<i>Nuphar advena</i></p> <p>White Water-lily
<i>Nymphaea odorata odorata</i></p> <p>Water-shield
<i>Brasenia schreberi</i></p> <p>Sycamore
<i>Platanus occidentalis occidentalis</i></p> <p>Sweet Gum
<i>Liquidambar styraciflua</i></p> <p>False-nettle
<i>Boehmeria cylindrica</i></p> <p>Mockernut Hickory
<i>Carya alba</i></p> <p>Common Wax-myrtle
<i>Morella cerifera</i></p> <p>Bluejack Oak
<i>Quercus incana</i></p> <p>Turkey Oak
<i>Quercus laevis</i></p> <p>Sand Post Oak
<i>Quercus margaretta</i></p> <p>Blackjack Oak
<i>Quercus marilandica marilandica</i></p> <p>Water Oak
<i>Quercus nigra</i></p> <p>Willow Oak
<i>Quercus phellos</i></p> <p>Tag Alder
<i>Alnus serrulata</i></p> <p>Eastern Prickly-pear
<i>Opuntia humifusa humifusa</i></p> <p>Common October-flower
<i>Polygonella polygama</i></p> <p>St. Andrew's Cross
<i>Hypericum crux-andreae</i></p> <p>Peelbark St.-John's-wort
<i>Hypericum fasciculatum</i></p> <p>Pinweed
<i>Hypericum gentianoides</i></p> <p>St. Andrew's Cross
<i>Hypericum hypericoides</i></p> <p>Marsh St.-John's-wort
<i>Triadenum virginicum</i></p> <p>Yellow Pitcherplant; Trumpets
<i>Sarracenia flava</i></p> <p>Northern Golden-heather
<i>Hudsonia ericoides</i></p> | <p>Pinweed
<i>Lechea racemulosa</i></p> <p>Ti-ti
<i>Cyrilla racemiflora</i></p> <p>Coastal Sweet Pepperbush
<i>Clethra alnifolia</i></p> <p>Dwarf Huckleberry
<i>Gaylussacia dumosa</i></p> <p>Dangleberry
<i>Gaylussacia frondosa</i></p> <p>Sand-myrtle
<i>Kalmia buxifolia</i></p> <p>Mountain Laurel; Mountain Ivy
<i>Kalmia latifolia</i></p> <p>Shining Fetterbush
<i>Lyonia lucida</i></p> <p>Staggerbush
<i>Lyonia mariana</i></p> <p>Sparkleberry
<i>Vaccinium arboreum</i></p> <p>Creeping Blueberry
<i>Vaccinium crassifolium</i></p> <p>Elliott's Blueberry; Mayberry
<i>Vaccinium elliotii</i></p> <p>Southern Highbush Blueberry
<i>Vaccinium formosum</i></p> <p>Black Highbush Blueberry
<i>Vaccinium fuscum</i></p> <p>Southern Blueberry
<i>Vaccinium tenellum</i></p> <p>American Persimmon
<i>Diospyros virginiana</i></p> <p>Horsesugar; Sweetleaf
<i>Symplocos tinctoria</i></p> <p>Black Cherry
<i>Prunus serotina serotina</i></p> <p>Common Groundnut
<i>Apios americana</i></p> <p>Carolina Wild Indigo
<i>Baptisia cinerea</i></p> <p>Honesty-weed; Rattleweed
<i>Baptisia tinctoria</i></p> <p>Common Partridge-pea
<i>Chamaecrista fasciculata fasciculata</i></p> <p>Blue Sandhill Lupine
<i>Lupinus diffusus</i></p> <p>Dwarf Bristly Locust
<i>Robinia nana</i></p> <p>Virginia Goat's-rue
<i>Tephrosia virginiana</i></p> <p>Flowering Dogwood
<i>Cornus florida</i></p> <p>Swamp Tupelo
<i>Nyssa biflora</i></p> <p>Blackgum
<i>Nyssa sylvatica</i></p> <p>Possum-haw
<i>Ilex decidua deciduas</i></p> |
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Cheraw State Park – Chesterfield Co., SC – October 27, 2007

- Little Gallberry; Inkberry**
Ilex glabra
- American Holly**
Ilex opaca opaca
- Muscadine; Scuppernong**
Vitis rotundifolia rotundifolia
- Red Maple**
Acer rubrum
- Winged Sumac**
Rhus copallinum
- Eastern Poison Ivy**
Toxicodendron radicans radicans
- Marsh Water-pennywort**
Hydrocotyle umbellata
- Centella; Coinleaf**
Centella erecta
- Carolina Jessamine**
Gelsemium sempervirens
- Coastal Plain Gentian**
Gentiana catesbaei
- Dawnflower**
Stylisma patens
- Beautyberry; French-mulberry**
Callicarpa americana
- Polypremum**
Polypremum procumbens
- Blue Water-hyssop**
Bacopa caroliniana
- Common Toadflax**
Nuttallanthus canadensis
- Senna Seymeria**
Seymeria cassioides
- Cross-vine**
Bignonia capreolata
- Slender Bladderwort**
Utricularia subulata
- Lobelia**
Lobelia glandulosa
- Common Dog-fennel**
Eupatorium capillifolium
- Grass-leaved Golden-aster**
Pityopsis graminifolia latifolia
- Climbing Hempweed**
Mikania scandens
- Earthstar**
Geastrum sp.
- Short-winged Green Grasshopper**
Dichromorpha viridis
- Cattail Toothpick Grasshopper**
Leptysma marginicollis
- American Bird Grasshopper**
Schistocerca americana
- Cave Cricket; Camel Cricket**
Ceuthophilus sp.
- Backswimmer**
Notonecta sp.
- Brown Water-scorpion**
Ranatra fusca
- Toad Bug**
Gelastocoris oculatus
- Cochineal Scale-insect**
Dactylopius sp.
- Red Imported Fire Ant**
Solenopsis invicta
- Eastern Yellowjacket**
Vespula maculifrons
- Thread-waisted Wasp**
Ammophila procera
- Little Blue Dragonlet**
Erythrodiplax minuscula
- Swamp Spreadwing (damselfly)**
Lestes vigilax
- Minute Ground Beetle**
Elaphropus ferrugineus
- Minute Ground Beetle**
Bembidion affine
- Dingy Ground Beetle**
Bradycellus tantillus
- Whirligig Beetle**
Dineutus carolinus
- Crawling Water Beetle**
Peltodytes dunavani
- Crawling Water Beetle**
Peltodytes sexmaculatus
- Burrowing Water Beetle**
Hydrocanthus oblongus
- Predacious Diving Beetle**
Ilybius biguttulus
- Predacious Diving Beetle**
Coptotomus venustus
- Water Scavenger Beetle**
Tropisternus quadristriatus quadristriatus
- Water Scavenger Beetle**
Enochrus ochraceus
- Water Scavenger Beetle**
Enochrus sublongus
- Ant-like Stone Beetle**
Euconnus sp.
- Sexton Beetle; Carrion Beetle**
Nicrophorus orbicollis
- Rove Beetle**
Lobrathium sp.
- Short-winged Mold Beetle**
Cylindrarctus longipalpis
- Aphodiine Dung Beetle**
Ataenius ovatulus
- Rhinoceros Beetle**
Strategus antaeus
- Marsh Beetle**
Cyphon perplexus
- Click Beetle**
Conoderus sp.
- Silken Fungus Beetle**
Cryptophagus sp.
- Darkling Beetle**
Uloma punctulata
- Broad-nosed Weevil**
Cercopeus n. sp. 30
- Marsh Weevil**
Lissorhoptrus lacustris
- Hidden Snout Weevil**
Conotrachelus schoofi
- Sleepy Orange (butterfly)**
Eurema nicippe
- Common Buckeye**
Junonia coenia
- Southern Cricket Frog**
Acris gryllus
- Great Blue Heron**
Ardea herodias
- Wood Duck**
Aix sponsa
- Mourning Dove**
Zenaida macroura
- Great Horned Owl (call)**
Bubo virginianus
- Red-cockaded Woodpecker**
Picoides borealis
- Pileated Woodpecker**
Dryocopus pileatus
- Blue Jay**
Cyanocitta cristata
- Carolina Chickadee**
Parus carolinensis
- White-breasted Nuthatch**
Sitta carolinensis
- Golden-crowned Kinglet**
Regulus satrapa
- Ruby-crowned Kinglet**
Regulus calendula
- Northern Mockingbird**
Mimus polyglottos
- Pine Warbler**
Dendroica pinus
- Virginia Opossum**
Didelphis virginiana
- Gray Squirrel**
Sciurus carolinensis
- White-tailed Deer (tracks)**
Odocoileus virginianus

FAUNA

- Trapdoor Spider**
Ummidia sp.
- Banded Garden Spider**
Argiope trifasciata
- Marbled Orb-weaver**
Araneus marmoreus
- Crab Spider**
Misumenops asperatus

Carolina Sandhills NWR – Chesterfield Co., SC – October 28, 2007

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<i>Lycopodiella appressa</i> | Nodding Ladies'-tresses
<i>Spiranthes cernua</i> | American Persimmon
<i>Diospyros virginiana</i> |
| Carolina Bog Clubmoss
<i>Pseudolycopodiella caroliniana</i> | Tulip-tree
<i>Liriodendron tulipifera</i> | Horsesugar; Sweetleaf
<i>Symplocos tinctoria</i> |
| Cinnamon Fern
<i>Osmunda cinnamomea</i> | Sweetbay
<i>Magnolia virginiana</i> | Black Cherry
<i>Prunus serotina serotina</i> |
| Bracken
<i>Pteridium aquilinum</i> | Swamp Bay
<i>Persea palustris</i> | Honesty-weed; Rattleweed
<i>Baptisia tinctoria</i> |
| Longleaf Pine
<i>Pinus palustris</i> | White Water-lily
<i>Nymphaea odorata odorata</i> | Wild Indigo
<i>Indigofera caroliniana</i> |
| Pond Pine
<i>Pinus serotina</i> | Sweet Gum
<i>Liquidambar styraciflua</i> | Virginia Goat's-rue
<i>Tephrosia virginiana</i> |
| Atlantic White-cedar
<i>Chamaecyparis thyoides</i> | Mockernut Hickory
<i>Carya alba</i> | Virginia Meadow-beauty
<i>Rhexia virginica</i> |
| Arrowhead
<i>Sagittaria australis</i> | Bluejack Oak
<i>Quercus incana</i> | Swamp Tupelo
<i>Nyssa biflora</i> |
| Green Arrow-arum
<i>Peltandra virginica</i> | Turkey Oak
<i>Quercus laevis</i> | Blackgum
<i>Nyssa sylvatica</i> |
| Common Ten-angled Pipewort
<i>Eriocaulon decangulare decangulare</i> | Sand Post Oak
<i>Quercus margaretta</i> | Blg Gallberry
<i>Ilex coriacea</i> |
| Hairy Umbrella-sedge
<i>Fuirena squarrosa</i> | Blackjack Oak
<i>Quercus marilandica marilandica</i> | Little Gallberry; Inkberry
<i>Ilex glabra</i> |
| Tall Nutrush
<i>Scleria triglomerata</i> | Florida Cottonweed
<i>Froelichia floridana</i> | American Holly
<i>Ilex opaca opaca</i> |
| Broomsedge
<i>Andropogon glomeratus</i> | Sandhill Wild-buckwheat
<i>Eriogonum tomentosum</i> | Tread-softly; Spurge-nettle
<i>Cnidioscolus stimulosus</i> |
| Seabeach Needlegrass
<i>Aristida tuberculosa</i> | St. Andrew's Cross
<i>Hypericum crux-andreae</i> | Muscadine; Scuppernong
<i>Vitis rotundifolia rotundifolia</i> |
| Giant Cane
<i>Arundinaria gigantea</i> | Pineweed
<i>Hypericum gentianoides</i> | Red Maple
<i>Acer rubrum</i> |
| Giant Plume Grass
<i>Saccharum giganteum</i> | Yellow Pitcherplant; Trumpets
<i>Sarracenia flava</i> | Winged Sumac
<i>Rhus copallinum</i> |
| Yellow Indiangrass
<i>Sorghastrum nutans</i> | S. Purple Pitcherplant
<i>Sarracenia purpurea venosa</i> | Poison Oak
<i>Toxicodendron pubescens</i> |
| Redroot
<i>Lachnanthes caroliniana</i> | Pink Sundew
<i>Drosera capillaris</i> | Poison Sumac
<i>Toxicodendron vernix</i> |
| Dwarf Iris
<i>Iris verna</i> | Water Sundew
<i>Drosera intermedia</i> | Centella; Coinleaf
<i>Centella erecta</i> |
| Curlyleaf Yucca
<i>Yucca filamentosa</i> | Ti-ti
<i>Cyrilla racemiflora</i> | Savanna Cowbane
<i>Oxypolis denticulata</i> |
| Whiteleaf Greenbrier
<i>Smilax glauca</i> | Coastal Sweet Pepperbush
<i>Clethra alnifolia</i> | Carolina Jessamine
<i>Gelsemium sempervirens</i> |
| Bamboo-vine
<i>Smilax laurifolia</i> | Trailing Arbutus
<i>Epigaea repens</i> | Pinebarren Gentian
<i>Gentiana autumnalis</i> |
| White Burmannia
<i>Burmannia capitata</i> | Dwarf Huckleberry
<i>Gaylussacia dumosa</i> | Four-angle Sabatia
<i>Sabatia quadrangula</i> |
| Water-spider Orchid
<i>Habenaria repens</i> | Shining Fetterbush
<i>Lyonia lucida</i> | Clasping Milkweed
<i>Asclepias amplexicaulis</i> |
| | Staggerbush
<i>Lyonia mariana</i> | Azure Sage
<i>Salvia azurea azurea</i> |
| | Sparkleberry
<i>Vaccinium arboreum</i> | Purple-foxtail
<i>Agalinis setacea</i> |
| | Creeping Blueberry
<i>Vaccinium crassifolium</i> | Senna Seymeria
<i>Seymeria cassioides</i> |
| | Southern Blueberry
<i>Vaccinium tenellum</i> | Slender Bladderwort
<i>Utricularia subulata</i> |
| | Sandhills Pyxie-moss
<i>Pyxidantha brevifolia</i> | Lobelia
<i>Lobelia glandulosa</i> |

Carolina Sandhills NWR – Chesterfield Co., SC – October 28, 2007

Lobelia

Lobelia puberula

Wahlenbergia

Wahlenbergia marginata

Silverling; Groundsel Tree

Baccharis halimifolia

Sandhill Chaffhead

Carphephorus bellidifolius

Maryland Golden-aster

Chrysopsis mariana

Sandhill Thistle

Cirsium repandum

Swamp Coreopsis

Coreopsis gladiata

Coastal Dog-fennel

Eupatorium compositifolium

Hyssopleaf Eupatorium

Eupatorium hyssopifolium

Flat-topped Goldenrod

Euthamia caroliniana

Narrowleaf Sunflower

Helianthus angustifolius

Beaked Hawkweed

Hieracium gronovii

Stiff-leaved Aster

Ionactis linariifolia

Grass-leaved Golden-aster

Pityopsis aspera adenolepis

Toothed White-topped Aster

Sericocarpus asteroides

Long-stalked Aster

Symphyotrichum dumosum

Purple-stem Aster

*Symphyotrichum puniceum
puniceum*

American Aster

Symphyotrichum walteri

Ironweed

Vernonia acaulis

Ironweed

Vernonia angustifolia

Blazing-star

Liatris secunda

Blazing-star

Liatris earlei

Slim Goldenrod

Solidago stricta

Sweet Goldenrod

Solidago odora

Rough-leaved Goldenrod

Solidago rugosa

Rosinweed

Silphium compositum

Turkey-tail

Trametes versicolor

FAUNA

Orb-weaver

Neoscona crucifera

Green Lynx Spider

Peucetia viridans

Slant-faced Grasshopper

Syrbula admirabilis

American Bird Grasshopper

Schistocerca americana

Tinkling Ground Cricket (call)

Allonemobius tinnulus

Allard's Ground Cricket (call)

Allonemobius allardi

Carolina Mantis

Stagmomantis carolina

Red Imported Fire Ant

Solenopsis invicta

Potter Wasp

Eumenes fraternus

Thread-waisted Wasp

Ammophila procera

Giant Robber Fly

Promachus rufipes

Carrion Beetle

* *Nicrophorus tomentosus*

Sap Beetles

Carpophilus spp.

Sleepy Orange (butterfly)

Eurema nicippe

Variegated Fritillary

Euptoieta claudia

Common Buckeye

Junonia coenia

Pin-striped Vermilion Slug

Monoleuca semifascia

Eastern Fence Lizard

Sceloporus undulatus

Turkey Vulture

Cathartes aura

Northern Harrier; Marsh Hawk

Circus cyaneus

Red-tailed Hawk

Buteo jamaicensis

Red-cockaded Woodpecker (nest)

Picoides borealis

Pileated Woodpecker (nest)

Dryocopus pileatus

Eastern Phoebe

Sayornis phoebe

Brown-headed Nuthatch

Sitta pusilla

Carolina Wren

Thryothorus ludovicianus

Eastern Bluebird

Sialia sialis

Gray Catbird

Dumetella carolinensis

Pine Warbler

Dendroica pinus

Song Sparrow

Melospiza melodia

White-throated Sparrow

Zonotrichia albicollis

White-tailed Deer (tracks)

Odocoileus virginianus