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The following pages are from the book-in-progress,
The Southern Swamp Explorer
by Irene Brady



scheduled for publication in 2007

Red-bellied Woodpecker

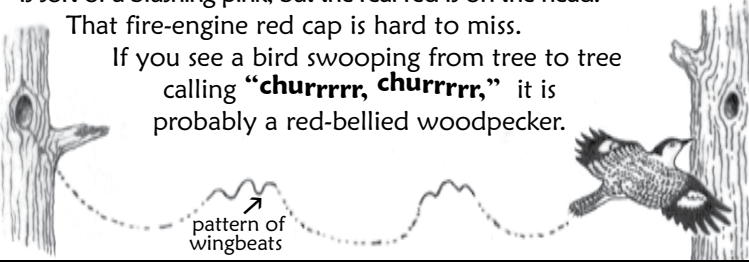
Melanerpes carolinus (mel-un-ER-peeZ cair-oh-LIE-nus)
Melanos = "black" **herpes** = "creeper" **carolinus** = "of Carolina"

To the Cherokee Indians, the red-bellied woodpecker, whom they called *Dalala*, symbolized war – perhaps because of its red head and neck which made it seem to be wearing a headdress, or maybe because it seemed to be scalped.

These charming birds are common in open woods around swamps. They're fairly tame and easy to find and watch, although if you're looking for a "red belly" you may not see one – the lower belly is sort of a blushing pink, but the real red is on the head.

That fire-engine red cap is hard to miss.

If you see a bird swooping from tree to tree calling "**churrrrr, churrrrr,**" it is probably a red-bellied woodpecker.



Guano - The Real Poop

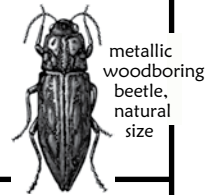
Bird poop is called *guano* (GWAH-noh). It makes great fertilizer because it is rich in nitrogen, phosphate and other nutrients. Rookeries produce LOTS of guano.

Rookery trees grow greener and larger from the birds' guano at first, but soon the guano acids begin to kill them. The weakened trees may be invaded by woodboring beetles – great woodpecker food.

Diseases may enter the tree through beetle tunnels. When the trees die, their trunks, branches and roots are recycled into the soil, enriching it for new plants and animals, continuing the endless circle of life.



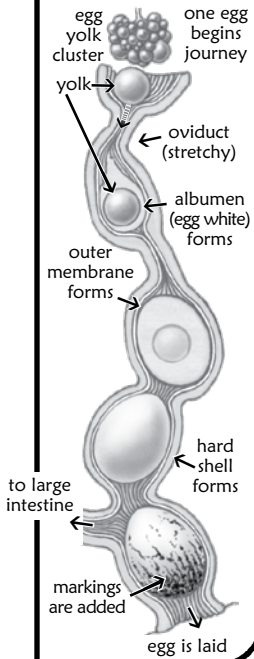
These patterns on wood are the tunnels of small woodboring beetles.



metallic woodboring beetle, natural size

To Make an Egg

An egg, much like the one you eat for breakfast (but fertilized) is released into a bird's oviduct from a cluster of eggs in the ovary. Here's what happens next (usually one egg at a time):



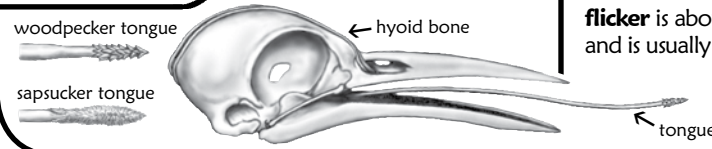
Tongue Tool

A woodpecker has an amazing tongue. It probes under and into bark to spear an insect with the tongue's sharp barbs.

A sapsucker (a type of woodpecker) soaks up sap with a feathery tongue brush.

The tongue hooks to the stretchy *hyoid* (HY-oyd) bone, which then branches and travels under, then up over the skull to anchor in the woodpecker's right nostril (see the drawings).

The hyoid bone lets the tongue extend **way** out to probe, then pulls it back.



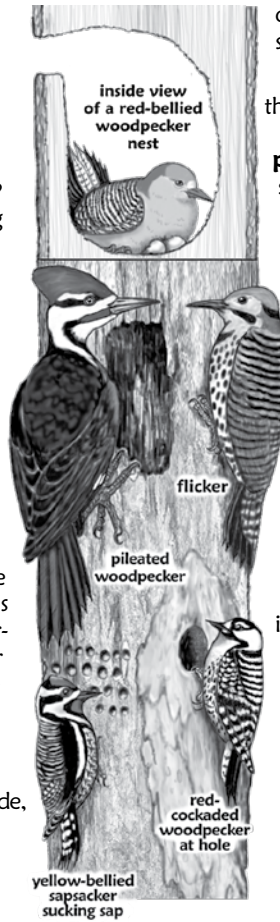
Woodpecker Woodworkings

Who's that beating on a drum out in the swamp – a gentle rolling drum tattoo? It may be a **red-bellied woodpecker**.

So, what's it doing? It might be advertising its territory to other males, drilling a dead or dying tree for insects, or excavating a nest hole. A red-bellied woodpecker's round hole is about two inches across.

Watch for excavations of **pileated** (PY-lee-ay-tid) and **ivory-billed woodpeckers**. These large woodpeckers make big rectangular holes while drilling for burrowing insects. Regular reports of ivorybills indicate they may not be extinct as once thought.

The entrance hole of a **flicker** is about 2 3/4" wide, and is usually



drilled in a dead tree or stump.

While the entrance to the nest of an endangered **red-cockaded woodpecker** nest is about the same size as that of a red-bellied woodpecker, the red-cockaded woodpecker drills only into living pines with heartwood disease. This makes the injured tree drip gooey pitch all around the hole, which keeps snakes from crawling inside to eat the chicks.

A **yellow-bellied sapsucker** drills holes in living trees. The holes fill with sap, which it licks up with its feathery tongue (see at far left). It also returns frequently to eat any insects that have become trapped in the sap. Wasps and other birds also feed at the holes.

10. The Red-bellied Woodpecker

The stinky guano and the noise advertised the rookery's location to any creature with ears or a nose. But the rookery was protected from predators – most wouldn't swim out to the island through the alligator-patrolled swamp. The swamp made a perfect moat or water barrier around the rookery

Some of the trees were dying. This didn't make them any less usable as homes for the herons and other wading birds. In fact, it actually made them simpler to land in and it was easier for the birds to see danger and give a warning, or launch into flight to chase a hawk or crow. On the downside, the trees didn't offer much protection to the chicks from the hot sunshine, and chicks were more exposed to attack from the air by crows, vultures and grackles who sometimes robbed unprotected nests of eggs and small chicks.

But for some of the rookery dwellers, those things weren't a problem – because they lived safely *inside* the dead trees.

A courting pair of red-bellied woodpeckers were inspecting decaying rookery trees. Red crowns flashing in the sunshine, they swooped from tree to tree, landing and inspecting each one, tapping loudly, calling “**CHAR-r-r-r! CHAR-r-r-CHAR-r-r-r!**” to each other as they searched.

They decided on a location near the center of the rookery, and the male began to excavate a hole about fifteen feet from the ground in one of the trees. The female joined him and they both worked taking turns pecking and excavating. They worked the wood out the opening. It took the two a week to carve out a nest about twelve inches in diameter. Exhausted by the difficult job of sleeping and gathering their strength for the day, the female laid four white eggs in the clean hole. About to begin, the raising of their family

There were several other holes in their home tree. For many seasons, pileated woodpeckers had been drilling for wood-boring beetles in the decaying tree. Below the red-bellied woodpecker nest, a level branch jutting out from a pileated woodpecker excavation like an apartment balcony was a daytime roost for a chuck-will's-widow.



Chuck-will's-widow

Caprimulgus carolinensis (cap-rih-MUL-gus cair-oh-lih-NEN-sis)
Caper = "goat" **mulgeo** = "to suck" **carolinensis** = "of Carolina"

The chuck-will's-widow has many peculiar names, starting with its family name, which means goatsucker (see at right). But rather than sucking on goats, the chuck-will's-widow is busy eating all kinds of insects and loudly calling "**CHUCK-WIDDLES-WIDOW**" during late afternoons and on moonlit summer nights. Its call has a bubbly sound like water running over rocks into a pool.

It's also called "chicka-willa," "chuck," "mosquito-hawk" and "nightjar." Nightjar refers to the jarring, sleep-wrecking cries it makes after dark. One moonlit night, a chuck-will's-widow was heard to make 840 calls without stopping.

It may sit on warm roads after dark, darting into the air for insects. If you're on a country road at night and see two red lights rise into the air and disappear, it may be a chuck-will's-widow – one of the few birds with red eyeshine.

Goatsuckers

A chuck-will's-widow is in a family of birds called goatsuckers.

This strange name supposedly got started when people long ago noticed birds that are related to chuck-will's-widows hanging around goats, where they may have been catching flies that buzz around livestock.



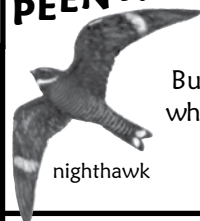
Their huge mouths were about the right size to fit around a goat's teat. So a whole group of birds, which also includes whip-poor-wills, nighthawks and others got named **goatsuckers!**

Hiding In Plain Sight

Imagine walking through the woods, watching the ground carefully for mushrooms or whatever, when a pile of leaves which **you are looking straight at** suddenly sprouts wings, flits silently up off the ground and disappears into the woods like a gigantic twelve-inch-long moth with a two-foot wingspread. WHAT WAS THAT?!

A chuck-will's-widow had been on the leaves almost at your feet and you didn't see it even though you looked right at it!

PEENT!



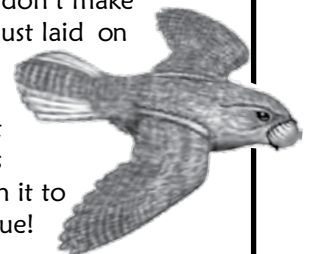
nighthawk

Chuck-will's-widows look a lot like the closely related night-hawks (also called nightjars)

But flying nighthawks show big white bands on their pointy wings, and their cry is a high, rising "peent!"

The Great Egg Escape

Chuck-will's-widows don't make real nests – the eggs are just laid on dry leaves. Keep your distance. If you even **touch** them, each parent may pick up an egg in its mouth and fly away with it to a safer place. Odd, but true!

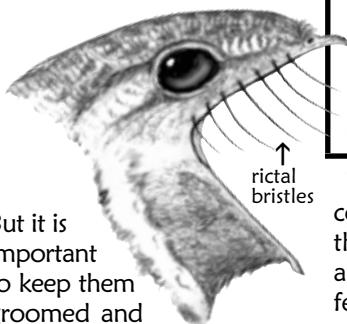


Rictal Bristles

Rictal (RIK-tull) bristles around the chuck-will's-widow's open mouth may help scoop up insects. They may also sense insect wing vibrations and improve the bird's aim. We aren't sure.



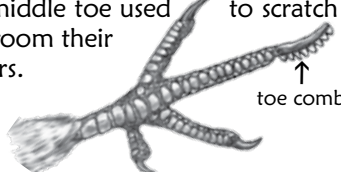
You have just experienced *cryptic* (KRIP-tik = concealing) *coloration*. A chuck-will's-widow is almost invisible if it doesn't move. In trees, it perches parallel on branches, blending into the outline of the limb. Even if you often hear them call, you may never see one.



rictal bristles

But it is important to keep them groomed and untangled, so the chuck-will's-widow carries a comb.

Herons and barn owls have similar combs – little teeth on the claw of their middle toe used to scratch and groom their feathers.

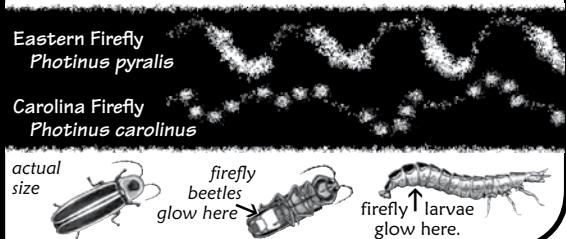


toe comb

Night Lights

Swamps are habitat for many species of firefly or lightning bug. These beetles flash glowing areas on their abdomens on and off to attract mates. Each species blinks a different pattern.

Fireflies taste terrible so they have few enemies. Here are two blinking patterns:



Eastern Firefly
Photinus pyralis

Carolina Firefly
Photinus carolinus

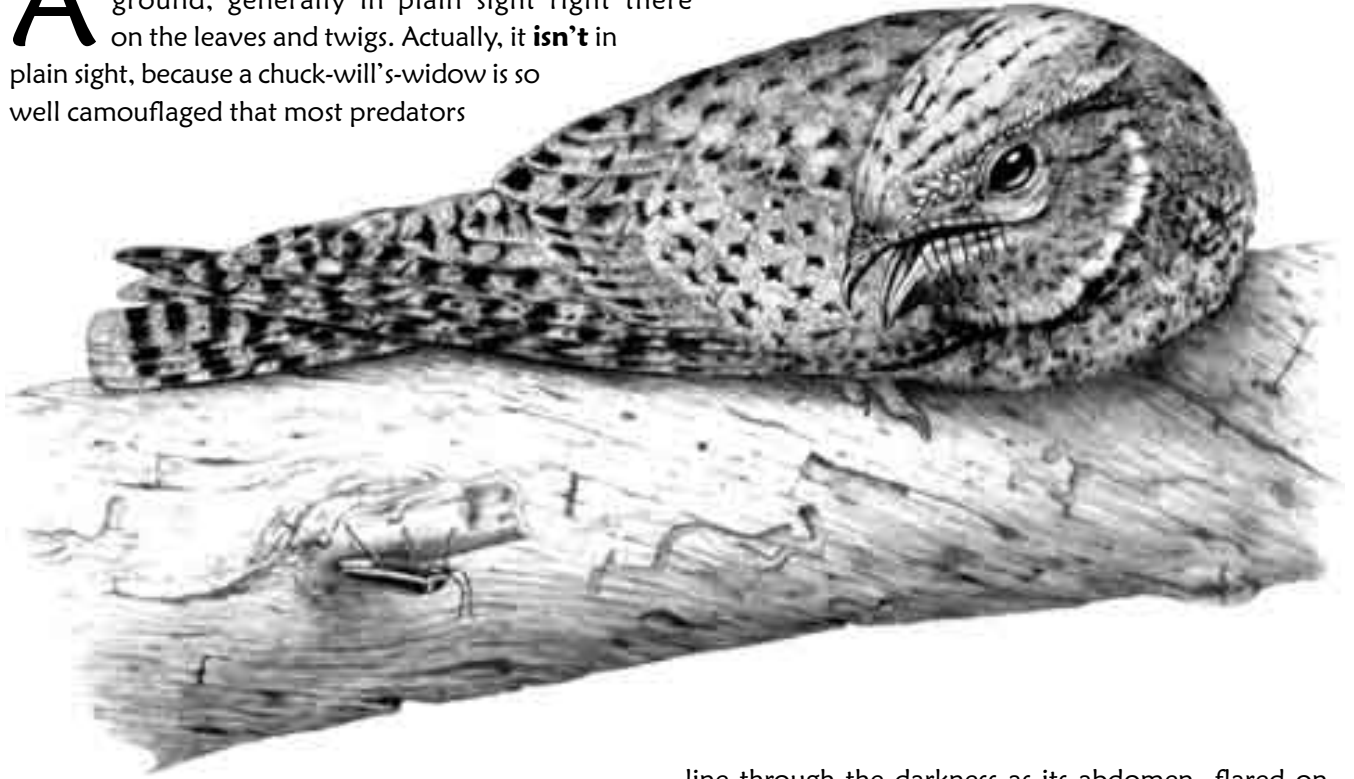
actual size

firefly beetles glow here

firefly larvae glow here

11. The Chuck-will's-widow

A chuck-will's-widow usually builds its nest on the ground, generally in plain sight right there on the leaves and twigs. Actually, it **isn't** in plain sight, because a chuck-will's-widow is so well camouflaged that most predators



wouldn't notice it unless they stepped on it. When not on the nest, the chuck-will's widow may roost in a higher spot further above the ground.

This chuck-will's-widow had chosen to roost on a large level branch so close to the red-bellied woodpecker's hole that the breeze from the woodpecker's wings fanned his mottled feathers as they came and went from their entrance.

He rested parallel to the branch instead of cross-wise as most birds do. His brown/grey/black speckled feathers were colored like bark, so he blended with the tree, disguised as a broken-off branch. He blinked lazily as he watched a firefly beetle moving along the branch, then went back to sleep. Chuck-wills are night birds and don't move about much during daylight – and they prefer to catch their food in the air.

As the evening shadows turned blue beneath the great cypresses and the roar of the rookery quieted to the occasional creaking of a nest and the yelps of chicks being pecked by their nestmates, the firefly launched into the air, disappearing then reappearing, a dotted

line through the darkness as its abdomen flared on and off like a tiny flashlight.

The chuck-will's-widow opened his large, black eyes wide, and looked around. Then he yawned. Until then, his bill had seemed tiny – just a small black point on the front of his face. But as the two halves opened, the crack grew wider and wider, opening into a huge, gaping two-inch hole, big enough to gulp down a small bird. Stiff, curving whiskers framed the opening, ready to guide in any moth, beetle, fly, wasp or small bird that escaped his open maw.

The chuck-will's-widow closed his bill with a tiny snap and peered around. Below him, fireflies were now flying, twinkling like tiny sparklers, winking in and out of the darkness.

“CHUCK-WIDDLES-WIDOW” he burbled loudly. **“CHUCK-WIDDLES-WIDOW, CHUCK-WIDDLES-WIDOW!”** Then he was gone, a flickering shadow in the dark.

He cruised through the air like a bat, gulping down whatever he came upon: beetles, fluttery moths, and swarms of mosquitos hatching from the dark, quiet backwaters of the swamp.

Anopheles Mosquito

Anopheles quadrimaculatus (an-OFF-ul-eez kwa-drih-mack-yew-LAY-tus)
Anopheles = “troublesome” **quadri** = “four” **maculatus** = “spotted”

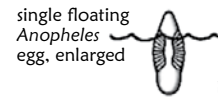
It’s really hard to think ANY good thoughts about mosquitoes. But if there weren’t any mosquitoes, the swamp would be an entirely different place. And maybe not a better place – because the many different species of mosquitoes are actually the “bread and butter” of a lot of swamp animals.

The lives of many fish, insects and their larvae, crawfish, frogs, and others *depend* on eating mosquito babies (“wigglers”) that hatch from eggs laid in the calm swamp waters.

Eggs laid in rain-filled pails or old tires don’t get eaten. You may have been bitten by mosquitoes hatching from these “pools.” (What you could do to help solve that problem?)

How can you avoid getting bitten? Use insect repellent, don’t wear dark clothes, stay behind mosquito netting or screens, and **don’t breathe** – mosquitoes will follow the trail of the carbon dioxide (CO₂) you breathe out, right back to yummy you!

Egg Raft Styles

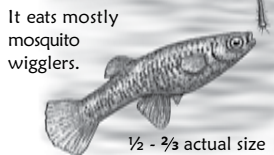


Mosquito *larvae* (LAR-vee = more than one larva) must mature in water. Some mosquito species lay hundreds of eggs which they glue together into floating rafts. The *Anopheles* mosquito lays single eggs, each kept afloat with an “inner tube” collar. Others lay their eggs on land which will flood later. Most mosquitoes lay eggs in calm water – rough or moving water could injure a larva or pupa (PEW-puh). Eating small organisms and liquid nutrients, a larva grows and molts four times, maturing into a pupa, then hatching into an adult.



A Swamp Food Chain Swamps depend on mosquito and other insect larvae to eat algae, decayed plant parts and animal microorganisms; then they are eaten by small carnivores like dragonfly nymphs, and by gambusia. Nymphs and gambusia are eaten by frogs, fish, turtles and other creatures; then they are gobbled by alligators, herons, otters, and so on. **Excrement** (poop), plants and animals which die in the water decay and enrich the water, which causes algae to grow faster for insect larvae to eat..... Around and around it goes.

Gambusia It’s not a new dance – the *gambusia* (gam-BOO-zee-uh) is a mosquitofish, and native to our Southeastern swamps.



Poisons used to kill mosquitoes also kill many other organisms which the swamp ecosystem depends upon. Alien plant and animal invaders can mess things up, too. If any link in the chain of life is broken, it changes the balance of life in the swamp.

Blood Suckers *Macrobdella decora*

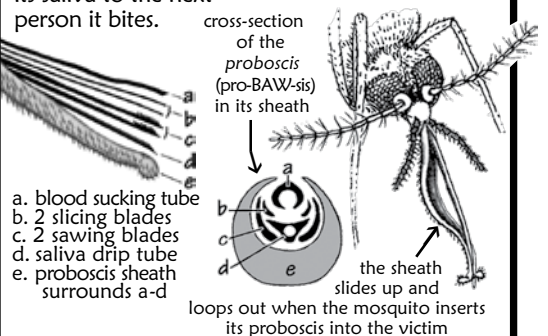
The prey of the freshwater leech is turtles, frogs, fish and other swamp visitors (maybe you). It holds on with toothy suckers, injects a numbing fluid, and drinks up to five times its own weight in blood. Then it lets go, and swims away, rippling like a ribbon in the water.



The site bleeds for awhile because an enzyme is added to keep the blood flowing. But the sucking didn’t hurt and the wound doesn’t get infected, so relax – no big deal.

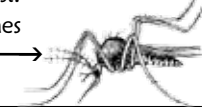
Mosquitoes Really Suck!

A mosquito pierces the skin with tiny blades, then sucks blood up one tube and drips saliva (filled with disease microbes and “blood thinner”) down another to keep the blood flowing. If a mosquito sucks up blood from a sick person, it can pass on that disease in its saliva to the next person it bites.



The *Anopheles* mosquito, also called the malaria mosquito, can spread the terrible disease malaria. But since few people in the U.S. have malaria anymore, mosquitoes don’t often spread it in the Southeast.

Male mosquitoes (the ones with feathery antennae) → suck plant juices, not blood.



Spatterdock

Nuphar advena

The spatterdock or yellow pond lily is common in most cypress swamps. Every autumn it dies back and decays, adding its nutrients to the water. Many of the swamp creatures use it for shelter and food.



Mosquito History

From mosquitoes preserved in amber, and fossils from forty million years ago, we know ancient mosquitoes looked almost the same as today’s mosquitoes. Today there are more than 2000 mosquito species in the world; 121 species are in the US.

*Note: Sometimes **drastic** steps are needed to control **aliens** (non-native plants or animals). See page 102.

12. The Anopheles Mosquito

The female mosquito was flying low over the water, the whine of her wings wavering up and down as she dropped her eggs one by one into the water. Then... snap! She was engulfed in a cavernous mouth.

She had laid only eleven eggs before she became the chuck-will's widow's snack. But the eggs would become mosquitos to take her place – if they were lucky.

In the warm water two to five days later, the little eggs developed into larvae “wrigglers.” Eating algae, tiny water creatures and decayed plant parts, they grew and shed their skins several times until they were ready to morph into pupae after about seven days. Only six of them made it this far. Two of the original eleven had been eaten by larger mosquito wrigglers, and three had become lunch for dragonfly and damselfly nymphs.

The remaining wrigglers curled and stiffened into dormant pupae. They floated just under the water's surface, breathing through tiny snorkel tubes on their backs but doing little else as

they changed inside. If danger threatened they could dive, but in a short while they would rise again through the murky water to the surface. This, and breathing, seemed to be their only activity. Five more were lost at this point. One became stuck to a stinkpot turtle shell as the turtle climbed out on a rock to bask, and it fried in the hot sunshine, unable to wiggle enough to squirm off the turtle's shell. The other four were eaten by mosquitofish.

About two weeks after being dropped into the swamp water as an egg, the single surviving mosquito pupa hatched. As it floated on the surface of the water, its skin slowly split and a female mosquito rose up into the air out of the old skin like an inflating balloon. Resting on the raft of the shed skin, she waited for her wings to dry, then she flew off to search for a mate. Later that night she found one.

Once she had mated, she needed a feast of blood in order for her eggs to grow. The late afternoon air of the swamp sang with the whine of her flight as she detected and followed a carbon dioxide trail of exhaled air straight to a family of raccoons exploring the mud in a shallow bed of spatterdock pond lilies at the edge of the marsh.

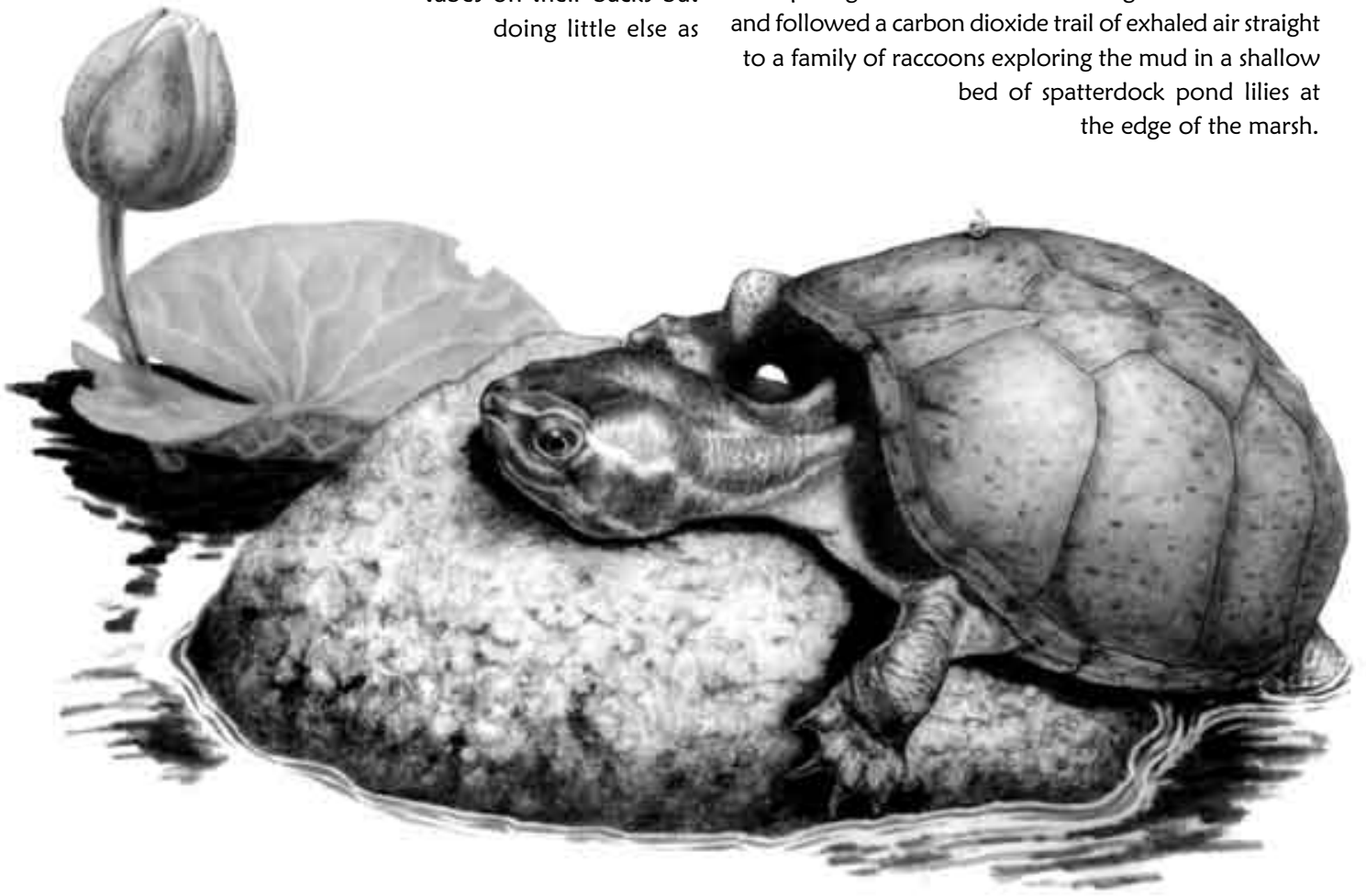


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Visit a Swamp (or bog or marsh or bayou or wet prairie!)

It's great fun to read a book like this about wet swampy places and the fascinating stories of the animals and plants that live there. But it's even more fun to visit such a place and see for yourself. It's a real adventure to go out on a boardwalk into the heart of a swamp, marsh or bog, and feel and hear and experience it for yourself.

Be sure to smear on bug repellent, and take binoculars, your camera and a field guide (or maybe this book, which will be available in 2007) to help you figure out and understand all the neat stuff around you.

Keep scrolling down to discover some very interesting wetlands you can visit. They

all have trails and boardwalks to help you get up close to their fascinating wetlands. These are only a few of the THOUSANDS of wetlands all over the United States.

If none of the wetlands shown here are near where you live or go on vacation, search out your own swamp and go exploring.

Some wetlands can only be seen from a road or trail around the edges. Others have boardwalks, trails and maybe even a visitor center with interesting exhibits, and a bookstore where you can get cool books about swamps.

Wherever you find your swamp, have fun, and Happy Exploring!



Audubon's Corkscrew Swamp Sanctuary near Naples, Florida

Located in extreme southern Florida, Audubon's Corkscrew Swamp has the largest remaining stand of old-growth cypress forest and the largest breeding colony of endangered wood storks in the US. Its warm climate supports a greater variety of plants and animals than may be found in more northerly swamps. Fed by rain water flowing from Lake Trafford to the northeast, Corkscrew's waters eventually wind their way to the Gulf of Mexico.

A two-mile boardwalk meanders from the Visitor Center through palm and pine uplands, wet prairie and marsh habitats, into an ancient bald cypress forest with trees up to 100 feet tall.

Corkscrew swamp is wettest during fall and early winter after spring and summer rains flood the sanctuary. Throughout the winter and early spring, water levels recede, the weather is dry and cooler, and visitors can observe migratory bird species as well as nesting raptors and wading birds. When spring and summer rains return, alligators mate and nest, pig frogs chorus in the swamp, and swallow tailed kites and nesting wood storks soar high above.

Mammals: Endangered Florida panthers, bobcats, bears, white-tail deer, rabbits, raccoons, gray squirrels and river otters, bats, opossums and armadillos roam the sanctuary. Feral pigs dig in the oak hammock – fine food for panthers.

Birds: Nearly 200 bird species visit or live in Corkscrew Swamp. Endangered wood storks nest in the bald cypress trees. Watch for barred owls, red-shouldered hawks, roseate spoonbills, American bitterns, purple gallinules, egrets, ibis, herons, limpkins, anhingas, woodpeckers, and Florida sandhill cranes year round. Sightings vary throughout the year as water levels rise and fall. Seasonal migratory birds include painted buntings, indigo buntings, and pine warblers. Swallow-tailed kites arrive in February from Brazil then gather for their long return flight in August.

Reptiles and Amphibians: Many reptile and amphibian species swim through the black water and slither through the trees. Alligators, water moccasins, banded water snakes, rough green snakes, peninsula ribbon snakes, red-bellied turtles, peninsula cooters, softshell turtles, mud turtles, Florida snapping turtles, Carolina anoles, leopard frogs, pig frogs, and tree frogs all frequent the cypress swamp. Dusky pigmy rattle snakes, black racers, rat snakes and oak toads prefer the pine upland areas. The endangered gopher tortoise has recently been sighted at the sanctuary.

Fish and Water Creatures: Gar, catfish, bowfin and bass are among the larger fish species, while sailfin molly, mosquito fish, minnows and flagfish are eaten by smaller swamp predators. Freshwater shrimp and crawfish, along

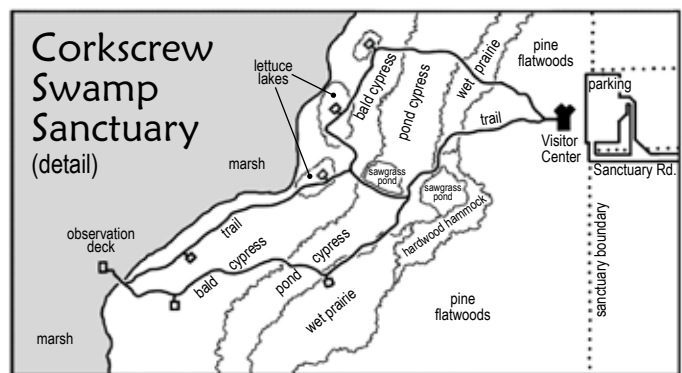
with newts, sirens and apple snails, provide meals for wading birds, young 'gators and small mammals.

Insects and Spiders: Beautiful butterflies – zebras, viceroys, ruddy dagger wings, white peacocks, queens, sulphurs and swallowtails – are frequently sighted. In the water, watch for whirligig beetles, water striders, water scorpions, and fishing spiders. Dragonflies and damselflies are seen in both aquatic larval and colorful adult forms. Young lubber grasshoppers, black with a yellow stripe, quickly molt into gargantuan orange and yellow adults.

Trees, Shrubs and other plants: Corkscrew's forests shelter both temperate and tropical plants: Live and laurel oak, myrsine, and wax myrtle thrive in hydric hammocks, hosting butterfly orchids and shoestring ferns. Slash pines, saw palmettos, and sabal palms dominate the pine flatwood habitats. In the swamp, cypress trees, pond apples, strangler figs and swamp bays abound. Pickerel weed, alligator flag, pop ash and red maples all grow in the ancient bald cypress cathedral. Tree limbs are covered with resurrection ferns, lichens and epiphytes, including many orchids. Sunflowers bloom in the fall, blue flag iris in the spring, and scarlet hibiscus during the summer. Swamp lilies bloom year round.

The plume hunting era of the late 1800's almost wiped out great egrets and other wading birds in the eastern US. Audubon wardens in the early 1900's risked and lost their lives protecting Audubon rookeries from rifles. Just as bird populations began to recover under the protection of the law, cypress trees, which are water, rot and termite resistant, began to fall to logging company saws.

Corkscrew Swamp Sanctuary was officially established in 1954 to save the old-growth cypress trees. The National Audubon Society protected the cypress swamp and wading bird populations in the majestic sanctuary visitors see today. Continued development, population growth and habitat fragmentation still threaten wildlife all over Florida. Corkscrew Sanctuary, covering more than 12,000 acres, protects an impressive cross-section of truly wild Florida.



75 to exit 111 (Immokalee Road), then east about 15 miles to Sanctuary Road. Do NOT take Corkscrew Exit.

for more information: Corkscrew Swamp Sanctuary ~ 375 Sanctuary Road West ~ Naples, FL 34120 ~ 239-348-9151 ~ www.corkscrew.audubon.org

click here
to visit their website!

Bluebonnet Swamp

in Baton Rouge, Louisiana

Located in Louisiana's capital city, Bluebonnet Swamp is nestled in the heart of Baton Rouge. Tucked away on one hundred acres of natural area, this sixty-five acre wetland transports visitors out of the hustle and bustle of the city and into a tranquil, wild cypress-tupelo swamp. With over two miles of walking trails and boardwalks, and an impressive exhibit building that houses many species of native reptiles and amphibians, visitors of all ages can enjoy seeing nature up close.

Bluebonnet Swamp was formed nearly three centuries ago as German farming immigrants moved into the area. In an effort to create easier passage over the mucky floodplain of the Mississippi River, settlers built Highland Road, incidentally blocking the flow of runoff into the river at several low-lying locations. The bottomland hardwood forest in one of these low-lying areas, in the presence of standing water, slowly gave way to the cypress-tupelo forest now known as Bluebonnet Swamp.

This small, isolated swamp remained untouched for more than two centuries, until the city of Baton Rouge expanded southward in the late 1970s and early 1980s and the forgotten swamp was rediscovered and identified as a unique ecological feature worthy of preservation. It was purchased by the Nature Conservancy of Louisiana in the late 1980s. The swamp was transferred to the Parks and Recreation Commission for the Parish of East Baton Rouge (BREC), and with the addition of forty acres of surrounding upland, became Baton Rouge's first nature-based park.

Many plants and animals call Bluebonnet Swamp home. Viewing wild animals in a natural situation requires quiet patience, sometimes difficult for younger visitors to attain. However, volunteer photographers have captured numerous images of the swamp's wildlife, which are regularly updated and on display in the nature center. There, or in the swamp, you might catch a glimpse of:

Mammals: Visitors with a keen eye and a bit of patience might be able to spot squirrels, raccoons, armadillos, opossums, minks, river otters, swamp cottontails, red foxes, and maybe even white-tailed deer.

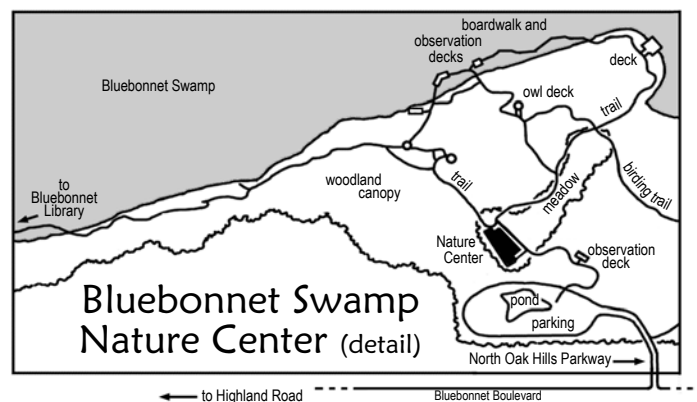
Birds: Birds can be seen throughout the year, especially during annual migrations (Baton Rouge is located near the bottom of the Mississippi Flyway, the largest migratory route in North America). While wood ducks, white ibis, and other migratory species are less seldom seen, visitors might observe blue herons, egrets, owls, hawks, vultures, crows, and many songbirds year round. During migrations, listen for the calls of several species of warblers, and the rare but unmistakable "rain crow" (the yellow-billed cuckoo).

Reptiles and Amphibians: From the safety of the boardwalks, children of all ages will enjoy spotting turtles, snakes, frogs, sailfin mollies, mosquito fish, crawfish, and even leeches in the murky swamp water. Most of the commonly seen snakes are harmless water snakes, but sometimes visitors get a chance to view the larger, venomous western cottonmouth. Along the gravel paths, you might see box turtles munching on wild strawberries, lizards and skinks lounging, or a non-venomous rat snake, kingsnake, racer, garter snake, or ribbon snake slipping away. And on the rarest of occasions, a lucky visitor may happen upon a sleek red and black mud snake hunting for amphiuma.

Insects and Spiders: In warmer months, butterflies and moths, including the gulf fritillary, monarch, and the very rare Seminole crescent butterfly delight visitors. They are joined by a variety of dragonflies, beetles, and honeybees. During the summer and fall, you'll be stunned by the size and beauty of the glistening orb webs of the golden silk spiders.

Trees, Shrubs and other plants: Bluebonnet Swamp is home to baldcypress, tupelo-gum, and Drummond red maple trees. Growing amidst these stately trees are other plants common to southern swamps – buttonbush, iris, lizard-tail, and swamp lily. In spring and fall, bright goldenrod, Indian pink, cardinal flower, jewelweed, native coneflower, and yellow-top grow in the meadow and along trails and water edges. Less showy flowers like trillium, green dragon, and jack-in-the-pulpit dwell in the shade of upland hardwood trees such as oak, gum, elm, hickory, paw paw, beech, and magnolia.

Though Bluebonnet Swamp is relatively young, it has gone through tremendous changes in the last fifty years as a direct result of urban development. Natural drainages leading water out of the swamp have been straightened and lined with concrete, neighborhoods and businesses surround the swamp where forests and meadows once stood. Pollution, erosion, sedimentation, and altered drainage patterns all threaten the future of Bluebonnet Swamp.



for more information: BREC's Bluebonnet Swamp ~10503 North Oak Hills Parkway ~ Baton Rouge, LA 70810 ~ 225-757-8905 ~ www.brec.org

click here
to visit their website!