



FEBRUARY 2018

Chapter News

A MESSAGE FROM PRESIDENT KRISTINE RIVERS

Our Bonus AT Day on January 20th started off 2018 with a bang! It was a huge success, with 94 people in attendance, including members from nine other TMN chapters across the state. If you couldn't attend, you missed a great day of education, networking, and fun. A lot of work went into putting it together and pulling it off smoothly, and I am so proud of everyone involved in making it a success. In addition to presentation team members (Phil Huxford, Ruby Lewis, Russell Miget, Peggy and Pete Romfh, and me), and support team members (Bill Ahlstrom, Jill Carroll, Neal McLain, Lisa Myers, Larry Peterson, Larry Ruhr, Don Sabathier, Jimmy Salinas, and Pam West), many other chapter members contributed by bringing snacks, assisting with clean-up, and generally being gracious hosts to all of our guests from other chapters. We are also very grateful to John O'Connell and the AgriLife staff for helping us with logistics and ensuring that we had everything needed to hold the event there. See pages seven and eight of this *Chapter News* for photos of the event taken by Dave Brandes, Susan Conaty, Neal McLain, and Pete Romfh.

We hope to hold an annual Bonus AT event, with different topics each year, and will be forming a planning committee soon to begin brainstorming for 2019. If you would like to be involved, just let Larry, Jimmy or Bill know.

If you missed the event, don't worry—we have many more AT opportunities coming up in the near future. Another full day of training has been in the works since last summer, when Kari Howard of Texas

Audubon spoke to our chapter about the Texas Estuarine Resource Network (T.E.R.N.), a community-based citizen science program that helps protect colonial waterbirds and their habitats through bird surveys, data collection, stewardship, restoration, and outreach. Many members expressed an interest in participating in that project, and we have scheduled training for Monday, February 26th in Pearland, with classroom instruction at the Pearland Recreation Center, and on-site rookery and foraging area training at the nearby John Hargrove Environmental Center (JHEC). If you would like to register for the training, you can do so at:

<http://evite.me/t78AzggY68>.

For other AT opportunities, check the COT Calendar on the website, which is updated as we schedule opportunities or become aware of them. View it at: <http://tmn-cot.org/Calendar/Calendar.html>. You can find information about upcoming VT opportunities on the Calendar, as well. It's a great resource!

I hope you will join us for the February Chapter Meeting at which Stephen Curtis, Aquatic Biologist at Texas Parks and Wildlife Department, will be presenting on the topic, *American Eels*, and providing information about how we, as citizen scientists, can gather data to better understand this unique species.

Kristine Rivers is the president of the Cradle of Texas Chapter. She can be reached at rivers@tmn-cot.org.



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Masthead photo by P&P Romfh.

Texas Master Naturalist Program
Cradle of Texas Chapter
Chapter News – February 2018

Registration closing soon for Kari Howard's Monday, February 26, TERN Colonial Waterbird Monitoring Training at Pearland Recreation Center, 9 a.m. to 3 p.m. Detailed description, including Evite link, is posted on the Chapter Calendar:

<http://tmn-cot.org/Calendar/Calendar.html>

Texas Master Naturalist Program—Cradle of Texas Chapter
General Meeting and Advanced Training
Wednesday, February 14, 2018
Texas AgriLIFE Extension Building
21017 County Road 171
Angleton, Texas 77515-8903

8:30 AM – 9:00 AM	Fun and Fellowship Snack Team: Bill Ahlstrom, Lisa Myers, Candace Novak, and John O'Connell
9:00 AM – 10:00 AM	General Meeting and Nature Notes <i>This meeting is approved for 1.00 hour volunteer time</i> Nature Notes: "Frog Calls" by Candace Novak
10:15 AM – 12:00 PM	Speaker: Stephen Curtis, Aquatic Biologist at Texas Parks and Wildlife Department Topic: American Eel

**BIOLOGISTS SEEK ASSISTANCE FROM ANGLERS
 IN TRACKING AMERICAN EEL IN TEXAS WATERWAYS**



American Eel (*Anguilla prostrata*) [1]

AUSTIN—Every now and then, anglers fishing Texas waterways may reel in something unexpected: the slimy, secretive American Eel.

"The American Eel is just such a unique species that you don't see that often, and so when you catch one or you see one, you remember it," said Texas Parks and Wildlife Department (TPWD) aquatic biologist Stephen Curtis. "It's going to leave an impression."

The American eel is found in rivers throughout the eastern half of the United States, but there are still many unanswered questions about the species, especially those in rivers that flow to the Gulf of Mexico. TPWD biologists are currently collecting data to better understand this unique species, and they are asking anglers to help in the effort by submitting pictures and information about eels they have caught or observed in Texas waterways. "In order for us to better manage and conserve this species in Texas, we need to have a better understanding of its distribution, abundance and life cycle," Curtis said. "We definitely need more data" [2].

Stephen Curtis is an Aquatic Biologist with the Texas Parks and Wildlife Department and is based in San Marcos.



Stephen Curtis [3]

He previously served as Aquatic Scientist at the Environmental Institute of Houston at the University of Houston—Clear Lake. In this position Curtis was responsible for the collection and management of biological and habitat data for various research and monitoring projects, and he led and managed field crews in data collection.

Curtis holds a Bachelor of Science degree in Wildlife and Fisheries Sciences from Texas A&M University and a Master of Science degree in Aquatic Resources from Texas State University [3].

[1] Wikipedia: *American Eel*. 2 November 2017. <http://tinyurl.com/y7y69mpy>.

[2] TPWD News Release, 4 August 2017. <http://tinyurl.com/yarn63fj>.

[3] LinkedIn: Stephen Curtis, 4 November 2017. <http://tinyurl.com/y8u292pr>.

Membership Report by Pete and Peggy Romfh, Membership Directors

Congratulations to those receiving awards at the COT February General Meeting:

Recertification 2017 (Turtle Pin)
Sherry Summers

Recertification 2018 (Ocelot Pin)
Ruby Lewis

500 Hours Milestone (Silver Dragonfly Pin)
Don Sabathier

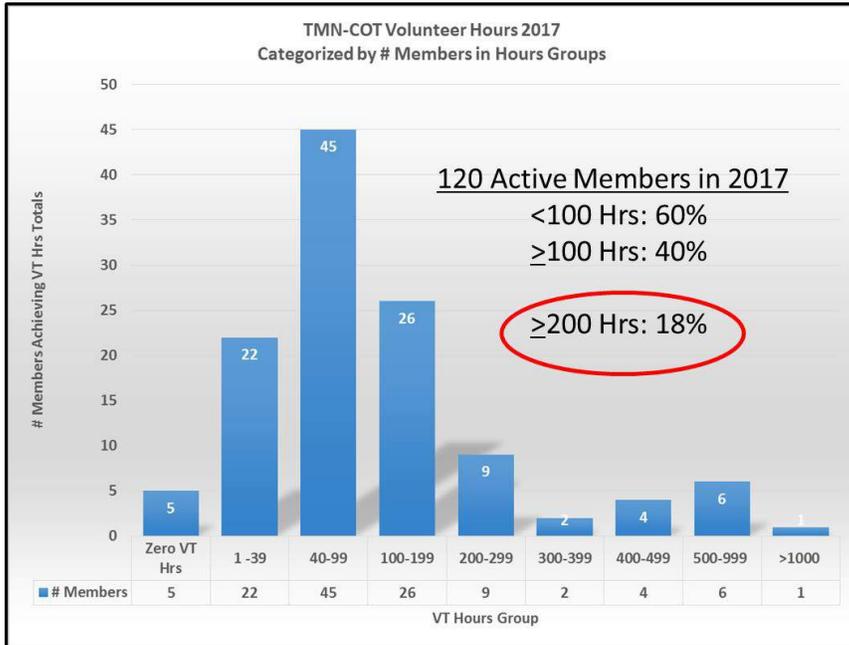
Impact Data—January

215 Adults 209 Youth 424 Total

Hours Totals—January

772 hours VT 382 hours AT 68 Volunteers

Distribution of VT Hours in 2017 by Members



The individuals pictured below accepted awards at the January General Meeting held at the Texas A&M AgriLIFE Extension Service.

Right: Peggy Romfh, Membership Director, with Denise Kaplan and Phyllis Gerdes, who recertified, and President Kristine Rivers (seated).



Left: Milestone recipients—500 hours, Cindy Goodrum; 4000 hours, Ruby Lewis; 2500 hours, Chris Kneupper; and President Kristine Rivers, seated. Photos by Dick Schaffhausen.

The TMN-COT members give generously of their time. We thought it would be interesting to view volunteer hours as categorized by hours groups. An amazing 40% of members volunteered over 100 hours each in 2017. The most active volunteer contributed over 1100 hours! Six members each volunteered between 500-999 hours, and nearly 20% of volunteers gave over 200 hours. That is an extraordinary commitment to education, outreach, resource management and field research. The variety of opportunities available to members numbered in the hundreds, from support of the DEEP education program at Brazoria NWR to public outreach at Migration Celebration and other community events to habitat restoration at Nash Prairie Preserve, Brazos Bend State Park, GCBO and other sites to citizen science projects related to water quality, bird counts, and USFWS research.

Total volunteer hours for 2017 are 16,953.5, a record effort among all COT volunteers. We look forward to achieving another record in 2018.

Who Am I? See Page 9 for answer and information



Above left: Photo and information source, Wikipedia, https://en.wikipedia.org/wiki/Strongylura_marina. Center, Mike Mullenweg holds a specimen. Right, a closer look at Mike holding the specimen. Photos by Kristine Rivers.

Continued on Page 9

Ruby Lewis Reaches 4000 Volunteer Hours by Neal McLain

The TMN-COT Chapter announced at its January General Membership Meeting and will celebrate at the February meeting Ruby Lewis' attaining 4000 volunteer hours as a member and as Outreach Director. In recognition of her achievement, Ruby receives a 4000-hour pin, a polished gold dragonfly inset with a ruby.

Ruby is a member of the Class of 2005 and has been an active volunteer ever since. Among her many activities on behalf of the Chapter is management of a series of educational programs for Brazoria County Branch Libraries during the summer. Programs are presented at libraries in Alvin, Angleton, Brazoria, Clute, Danbury, Freeport, Lake Jackson, Manvel, Pearland, and Sweeny. A video of a typical program at the Pearland Library, introduced by Phil Huxford, can be found at: <https://tinyurl.com/11245556>.

Ruby also coordinates programs at public events such as Migration Celebration, KBR Kids Day, the Lake Jackson Festival of Lights, and Brazoria Heritage Day, to name a few.

The board and membership of the Cradle of Texas Chapter congratulate Ruby for her many contributions to the chapter.



Photos clockwise, from top left: Ruby Lewis with alligator at 50th anniversary celebration of Brazoria National Wildlife Refuge, June 2016; TMN 4000-hour pin, gold with ruby inset; Ruby at 2017 Lake Jackson Festival of Lights, 2017; Ruby at Kids Day at Brazos Mall, 2014; Ruby at Brazoria Heritage Day as Phil Huxford looks on, March 2015; Ruby displays an alligator skull ("Herman") at Texas Master Naturalist reptile program at Pearland Library. Photo: *Houston Chronicle*.

On the Calendar... by Neal McLain

TMN-COT members—here are three events coming up in the next 30 days

MATAGORDA BAY BIRDFEST

Public Birds of Prey Program
February 17, 2018 — 11:30 AM
 Matagorda Bay Birdfest
 Luther Hotel Lawn, Palacios, Texas
<http://matagordabaybirdfest.org>
 408 S Bay Blvd Palacios, Texas 77465
 Map: <https://tinyurl.com/LutherHotel>
 Map: <https://tinyurl.com/Birdfest-2018>

For further information about *Birds of Prey* programs see
<http://birdsofpreytexas.org/>

BRAZORIA HERITAGE FOUNDATION

Brazoria Heritage Celebration
March 3, 2018 — 9:00 AM - 4:00 PM
Parade starts at 10:00 AM
<http://brazoriahf.org/>
 Brazoria Civic Center
 202 West Smith Street, Brazoria, TX 77422
 Map: <https://tinyurl.com/BHF-MAP-77422>

Volunteers are needed to staff a joint TMN-COT/FOBWR booth. Ruby Lewis will have sign-up sheets at the February General Meeting. Contact Ruby to volunteer, 979-549-0940
rubylewis@tmn-cot.org



Gulf Coast Bird Observatory

Birds of Prey Program
March 10, 2018 — 4:00 PM
GCBO Brew on the Bayou
<http://www.gcbo.org/event/brew-on-the-bayou/2018-03-10/>
 Gulf Coast Bird Observatory
 299 West Highway 332, Lake Jackson, TX 77566
 Map: <https://tinyurl.com/GCBO-2018>

For further information about *Birds of Prey* programs see
<http://birdsofpreytexas.org/>

For more upcoming events check the calendar
<http://tmn-cot.org/Calendar/Calendar.html>

Link and Learn: Coping with the Cold—Challenges Faced by Quail in Winter

The four native-Texas quail species—northern bobwhite quail (*Colinus virginianus*), scaled quail (*Callipepla squamata*), Gambel's quail (*Callipepla gambelii*), and Montezuma quail (*Cyrtonyx montezumae*)—can all be found across west and central portions of the state, where temperatures can drop well below freezing in the winter. Survival for a quail is tough all year, but plummeting temperatures make it more challenging with added energy requirements, food scarcity, and increased risk of mortality.

Winter is one of the most biologically and environmentally stressful times for quail. Colder weather requires individuals to expend large amounts of energy—25% more—just to maintain a steady body temperature. This need is coupled with the increased energy requirements associated with reproduction in the following spring months. Scaled quail will begin to select mates as early as late February, and Gambel's quail will begin to breed in mid- to late February following a cool, wet winter.

Inconveniently, this spike in energy needs occurs when food resources are least abundant. A study in west Texas found that winter availability of broomweed seeds affected both bobwhite and scaled quail diets and the morphology of their digestive tract. When broomweed seeds are not available, both species increase their intake of relatively-low energy green vegetation to meet their nutritional demands and elongate their small intestine and ceca to extract more nutrients. The study found that scaled quail seemed better equipped than bobwhites to adjust their digestive organs to extract more energy from food and accumulate more lipid reserves when seed availability was limited.

All species of Texas quail depend on a variety of food sources throughout the winter months, including grass and forb seeds, green vegetation, insects, and mast. A study of quail food habits in southwest Texas revealed bobwhite winter diets consisted of 72% green vegetation, 20% seeds/fruits and 6% animal matter, whereas scaled quail diets consisted of 52% green vegetation, 38% seeds/fruits and 2% animal matter in the fall-winter. Beetles, grasshoppers, stinkbugs, termites, leafhoppers, ants, and butterfly and moth larvae have been recorded by multiple studies as important cold-weather staples in quail diets.

Sorghum and wheat from food plots, scattered waste, and unharvested fields can provide an invaluable supplemental food source to help maintain coveys and accumulate birds' fat reserve through the harsh winter months. Food plots need to be effectively managed since consumption of food resources by other species can render them useless to quail in the late winter, especially in the months of January to March.

Freezing is another major cause of quail winter mortality. Robel and Kemp (1997) found that low temperatures in



January and periods of snow cover significantly increased winter mortality of bobwhites, both by chilling the birds themselves and preventing them from finding food. Despite being small, primarily ground-dwelling birds, Texas quail are hardy and able to cope with winter conditions provided they have adequate cover. Essential thermal and

loafing cover varies for each species but can include bunchgrasses, shrubs, trees and bases of rocks, in the case of the Montezuma quail. Evergreens like various junipers (*Juniperus* spp.) provide excellent thermal cover against north winds. Quail that covey-up for the fall and winter may have an extra advantage, as the covey roosts in a tight circle (heads out, tail in) to keep warm and has more eyes looking out for predators and food.

There is also an increased threat of predation during the winter months. Scarcity of resources means that quail have to cover more ground and, in the process, expose themselves to predators. Raptors [e.g., Cooper's hawks (*Accipiter cooperii*) and Northern harriers (*Circus cyaneus*)] are typically more abundant during winter months and can exact a toll on quails. A study of overwinter survival of quail in Kansas found avian and mammalian predators accounted for 55% of mortality of their radiomarked bobwhites. Researchers in Tennessee reported that changes in landscape structure, specifically increased abundance of closed canopy forest edge within covey home ranges, increased overwinter bobwhite mortality. This may have been due to two reasons. First, bobwhite activity along the forest edge may have rendered the birds vulnerable as they moved between open habitats with herbaceous ground cover into forests with little or no herbaceous cover. Second, the abundance of forest edge may have boosted overall predator abundance and/or efficiency, giving predators the advantage in these otherwise-suitable habitat spaces.

Life for quail is never easy, but it gets even tougher in winter. The combination of decreased food resources and increased energy requirements can cause increased metabolic stress for these small birds. Sparse cover and increased foraging time also leave quail exposed to both avian and mammalian predators. By making the best of a limited food supply, relying on their covey and using available cover, quail can beat the odds and survive to see the spring.



Source: Wild Wonderings Texas A&M AgriLIFE Extension Service. Written by Shelby McCay, Texas A&M University. Edited by Dr. Dale Rollins, Statewide Coordinator, Reversing the Quail Decline Initiative, and Amanda Gobel, Extension Associate, Texas A&M Natural Resources Institute.

<http://wild-wonderings.blogspot.com/2018/01/coping-with-cold-challenges-faced-by.html>

COT's State Speakers Reprise Presentations at January 20 Bonus AT Day by Lisa Myers

It's a Wild, Wild Life on the Mid-Texas Coast was an aptly-named series of presentations made by several COT members at last October's TMN Annual Meeting in Corpus Christi. The title also describes the fun and informative time experienced by: COT members, attendees from nine other TMN chapters, and a couple of people not affiliated with TMN—94 in all—at COT's Bonus Advanced Training at the Angleton AgriLIFE facility on January 20.

The other chapters represented among the guests were: Coastal Prairie, El Camino Real, Galveston Bay Area, Goodwater, Gulf Coast, Heartwood, Highland Lakes, Lindheimer, and Mid-Coast.

Since Rich Tillman was not available to repeat his presentation on estuaries, Dr. Russell Miget provided his expertise on the topic, and Ruby Lewis added a session on the care and handling of wild animals used for education. The original idea for participation at the State meeting and the Bonus AT Day came from COT President Kristine Rivers, who wrote the proposal made to the State office and organized Saturday's efforts.

Those attending all sessions earned 6.5 AT hours while enjoying the following:

- "Coastal Ecology—Dunes, Beach Finds and Plants," Peggy Romfh (with displays)
- "Ecology of the Coastline—Estuaries," Dr. Russell Miget
- "Shorebirds," Kristine Rivers
- "Invertebrates," Peggy Romfh (with displays)
- "Alligators," Kristine Rivers
- "Snakes," Phil Huxford (with live animals)
- "Live Animal Handling," Ruby Lewis (with live animals)

The efforts of many were critical to the success of the event. Morning and afternoon snacks were coordinated by Pam West and provided by her and other COT members, and Pam arranged for the barbeque-stuffed potato lunch catered by Duran's in Angleton and sponsored by the COT Chapter. In addition to the COT members who presented, those organizing, assisting speakers, or otherwise contributing to the event were: Jill Carroll, Neal McLain, Lisa Myers, Larry Peterson, Pete Romfh, Larry Ruhr, Don Sabathier, and Jimmy Salinas. Additionally, Dave Brandes, Susan Conaty, Neal McLain, and Pete Romfh photographed the event and many COT members offered a warm welcome to visitors and helped clean up.

In the words of one attendee:

"What an amazing Saturday! Cradle of Texas Chapter rocks with hospitality. You all were so generous [in] sharing your chapter presentations with Coastal Prairie Chapter. I loved the entire day... Your hospitality and heart for outreach truly inspired me. Looking forward to future opportunities for our chapters to work together."



Row 1: Kristine Rivers; Dr. Russell Miget; Peggy Romfh; Phil Huxford; **Row 2:** Ruby Lewis; attendees during morning snack time; attendees from another chapter snapping a photo with the big alligator; attendees viewing samples provided by Peggy and Pete Romfh. Photos above and on following page by Dave Brandes, Susan Conaty, Neal McLain, and Pete Romfh.

Continued on following page

COT's State Speakers Reprise Presentations at January 20 Bonus AT Day continued



1. Exhibit materials gathered by Pete and Peggy Romfh to accompany Peggy's presentations on plants and invertebrates; 2. Dave Brandes, Bill Ahlstrom, and Peggy Romfh examine her and Pete Romfh's display; 3. It was love at first sight for Christina Hartman and the big alligator; 4. The big alligator always steals the show; 5. Pam West making gallons of coffee; 6. Larry Peterson, "the tech guy"; 7. Southern Copperhead Snake; 8. Broad-banded Water Snake; 9. Cindy Goodrum and Carole Wenny; 10. Leo Novak and Candace Novak; 11. Chip Sweet and Bob Whitmarsh; 12. Pam West and Phyllis Gerdes; 13. Lisa Myers and Caylie Harris; 14. Ellen Lasseter and Mike Lasseter; 15. Herb Myers and Don Sabathier; 16. C. J. McDaniel of TMN Coastal Prairie Chapter and Roy Morgan; 17. Mary Holler, Rainbo Johnson, and Carolyn May-Monie; 18. Judy Green.

BASF Planetarium's Scholastic Bowl



According to the Center for the Arts and Sciences in Clute, Scholastic Bowl is the biggest and best trivia game in Brazoria County.

The fundraiser, organized by the BASF Planetarium, is a trivia game played by teams of up to four

people who combine their knowledge to answer questions inspired by pop culture, sports, current events, and maybe even a bit of history, geography, science and other areas. The game is easy to play as the teams simply jot their answers onto an answer sheet: No buzzer to hit, no oral response, no glaring white-hot spotlight, no "deer-in-the-headlights" look in front of friends. Physical prizes consist of cheesy "junk" from the Planetarium gift shop, but bragging rights for knowing the most trivia in Brazoria County is the real prize.

While some teams focus on highest score for the game, many teams have a smaller rivalry between them and another group of friends. Alumni groups from various universities and colleges often enter a team just to play against a favorite rival, with a goal



COT's "Nerdy Naturalists" team circa 2011 made a very respectable showing. From left: Lois Morgan, Jerry Eppner, Barbara Burkhardt, Bryan Adams, and Ed Barrios. Photo by Justina Dent.

to simply beat the other team, and church groups often play "rival" congregations. Team t-shirts, hats, and corny team names are welcomed and encouraged. The bowl will be held Thursday, February 22nd, 2018, at the Center for the Arts and Sciences in the Dow Arena Theater at 7:00 PM. Entry fee for each team is \$100 and all fees go directly to supporting Brazosport Planetarium science education.

Teams can register by calling The Center at 979-265-7661. Audience tickets are also available. For more information, contact COT's own Mel McKey at 979-236-9375.

Source and event information at

<http://bcfas.org/planetarium/scholastic-bowl/>.

Who Am I? *Continued from Page 3*

This month's "Who Am I?" refers not to Mike Mullenweg but the Page 3 specimen, which was found in the Corpus Christi area during the October field trip hosted by COT's State Meeting Presentation Team. *Strongylura marina*, an Atlantic needlefish, is a common, demersal needlefish species found in marinas and other areas with minimal currents, including estuaries, and they ascend well upstream into fresh water, from Maine to Brazil, including areas along the Gulf of Mexico coast. Its extremely long jaw and body set this fish apart from other predators. In Texas, *S. marina* is found in such drainage units as Galveston Bay and the Brazos River, among others.

Juveniles' diet consists of 70% shrimp, mysids, and amphipods and 30% fish, while adults are exclusively piscivorous. Predators include larger piscivorous fish such as the Atlantic tarpon (*Megalops atlanticus*), and less commonly, bottlenose dolphin (*Tursiops truncatus*) and juvenile lemon sharks (*Negaprion brevirostris*). Since they are surface swimmers, Atlantic needlefish are also preyed upon by some birds. Competitors of *S. marina* include similar-sized piscivorous fish species such as bonefish. Although the maximum salinity *S. marina* can tolerate is 36.9 ppt, they are able to adapt to a wide range of salinities.

Spawning typically occurs in late spring and summer in shallow, inshore habitats, and females lay eggs that have many long, filamentous tendrils that attach to floating vegetation such as sargassum seaweed, or other submerged objects. Reproductive maturity is two years after hatching. Not of high commercial importance, *S. marina* is sometimes taken as bycatch. Sport fishermen use it as bait.

Reaching a maximum size of 640 mm, its coloration is as follows: Back, head and snout are dark green, grading to silvery on the sides and white on the undersides with a bright, silvery-white, mid-lateral band and a dark, pre-dorsal band. Anal and pelvic fins are immaculate to dusky; pectoral and dorsal fins are lightly pigmented; caudal fins are heavily pigmented, usually bluish near the base. Small specimens may have scattered melanophores below the silvery white band on the sides, and fins may be unpigmented.

As seen in the photos, its body shape is slender, cylindrical, and not compressed, and the snout is needle-shaped, with jaws about twice as long as the rest of the head. Sharply-pointed teeth are in bands, with the innermost enlarged and canine-like.

In Memoriam: Flo Hannah Compiled by Neal McLain



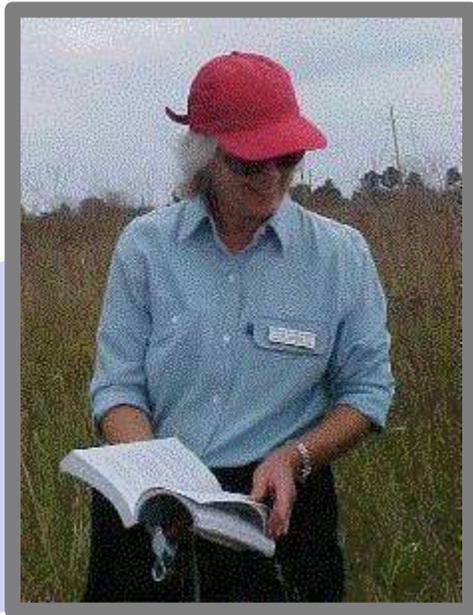
Flo Hannah passed away at her home in January, 2018. She was born in Galveston in 1948 and lived there until she graduated from high school. She received an undergraduate degree from the University of Texas and earned a Master of Science degree in Wildlife and Fisheries Sciences from Texas A&M University.

Flo was known as a steward for the environment of the Upper Texas Gulf Coast. Her extensive knowledge of native plants and grasses and her passion for conservation will live on in nurseries, pocket prairies, and sanctuaries throughout the Upper Texas Gulf Coast [1].

Flo was the Senior Sanctuary Steward at the Houston Audubon Society, a position she had held since 2002. Her responsibilities included managing several of Houston Audubon's 17 sanctuaries. She also served on the Board of the Native Plant Society of Texas—Houston Chapter and participated in bird banding and surveying for the U.S. Fish & Wildlife Service (USFWS). In addition, Flo owned Hannah Native Grasses, Inc., a small business specializing in growing native, coastal-prairie grasses [2].

Flo brought her knowledge to southern Brazoria County on several occasions. In October, 2004, she and Thomas Adams of USFWS led COT Chapter members on a tour through what was then known as Nash Prairie (before the property was acquired by The Nature Conservancy and renamed Nash Prairie Preserve) [3]. In 2010, she was a guest speaker at *Migration Celebration*, speaking on "What Bird Food Looks Like" [4]. In October, 2013, Flo was the guest speaker at COT's General Membership Meeting, where she discussed native grasses [5].

A friend to the environment and many COT members, Flo will be missed.



Flo Hannah at Nash Prairie,
West Columbia, Texas, 2006



Flo Hannah at Native Plant Society of
Texas, Houston Chapter, February, 2010

[1] "Flo Hannah 1948-2018." Obituary, *Legacy.com*. Published in the *Houston Chronicle* on Jan. 12-13, 2018. <https://tinyurl.com/hannah-obit>.

[2] "What Bird Food Looks Like." April 2010. Published on the *Refuge Friends* Website in 2010; republished in January 2018. <http://refugefriends.org/MC-10/Hannah/index.html>.

[3] "Nash Prairie Field Trip." October 2004, p. 4. Published on the *TMN-COT* Website in 2004. <http://tmn-cot.org/Scrapbook/Nash-photos.pdf>.

[4] "What Bird Food Looks Like" op. cit.

[5] "Grasses." October 2013. *Chapter News*, October 2013, p. 2. Published on the *TMN-COT* Website in 2013. http://tmn-cot.org/Newsletters/Chapter_News_2013-10.pdf.

Cradle of Texas Chapter Board

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Master Naturalist Email Lists

TMN-COT Chapter list

- Instructions http://tmn-cot.org/Email_Lists/index.html
- Send messages to TMN-COT@googlegroups.com
- Message Archive <http://tinyurl.com/TMN-COT-Mail>
- All messages are sent immediately.

State Master Naturalist list

- Instructions <http://txmn.org/staying-connected/sign-up-for-tmn-listserv/>
- Subscribe listserv@listserv.tamu.edu
- All messages are held for moderation by the TMN State Coordinator.

Chapter News is published monthly on Monday before the General Meeting by the Texas Master Naturalist Cradle of Texas Chapter. Submissions are welcome; submission deadline is 5:00 PM on Friday before the General Meeting. Send submissions by email to *Chapter News* Editor at news@tmn-cot.org. Submissions may be edited for clarity and spacing.