FIRST COAST FLY FISHERS

December 2018

Educating, Restoring, Conserving through Fly Fishing

First Coast Fly Fishers December 3, 2018 Meeting Featuring

Capt. Chris Holleman
FWC Office and Fishing Guide

This month we are pleased to welcome Florida Fish and Wildlife Conservation Commission (FWC) Officer and local fishing guide Captain Chris Holleman. Chris has been fishing the inland waters of Jacksonville since he was old enough to hold a cane pole. Captain Chris has won numerous fishing tournaments on the Local Inshore Fishing Circuit, to include the 2000 North Florida Triple Challenge and the 1999 Florida Governor's Cup Flats Fishing State Championship. He has also been recognized by the Costal Conservation Association (CCA) as one of the top FWC officers in the state. His wealth of local knowledge and skill is vast, and Captain Chris is ready to share with you all that he knows, so you can experience the incredible light tackle fishing the Jacksonville area is most famous for. Also, Chris has many experiences to share about the dangers and experiences as a Florida Fish and Wildlife Officer! Show up early and visit with other club members before the program starts!

It is the end of the year and that means it is time to **renew your membership** to the First Coast Fly Fishers. At $100 a year for a family membership, it is still the beat deal in fly fishing. If that wasn't enough incentive, everyone that pays they 2019 membership by the January meeting will receive a chance to win a new Temple Fork Outfitters reel.

For this month's outing we will be heading to Titusville to attend the Renzetti Fly Fishing & Rod Building Fair. Several fly fishng luminaries will be on had offering seminars on fly tying, rod building and fly casting inclusing: Jon Cave, Bob Clouser Sara Gardner, Bob Popovics, Steve Farrar, Dennis Papike and many others. The Club will be paying the admission for those members in good standing that wish to attend the event on Saturday December 8th.

The First Coast Fly Fishers would like to wish all of you Happy Holidays and a New Year full of fishing.

On the Cover:
Outgoing (Lame Duck) President Scott Shober fishing the beach at Ft Clinch
Photograph by Jason Sheasley

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FIRST COAST FLY FISHERS
PO BOX 16260
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Tagged Tarpon Travels from Lower Florida Keys to Maryland

Bonefish and Tarpon Trust

Bonefish and Tarpon Trust (BTT) began to acoustically tag tarpon in May 2016 in an effort to expand our knowledge of tarpon habitat use and movement at different life stages. We just received a noteworthy report of a tarpon detection from BTT's Tarpon Acoustic Tagging Project, and it provides additional insight on tarpon movement. A 40-50 pound male tarpon (ID #15923) tagged in the Lower Keys on May 12, 2017 was detected near Ocean City, Maryland this summer, on July 24, 2018. If the fish followed the Gulf Stream north, it swam roughly 1,000 miles, but if the fish followed the coast, it likely traveled twice that far! BTT scientists estimate that the tarpon now weighs approximately 60 pounds.

Using acoustic tags allows BTT scientists to tag juvenile, sub-adult, and full-grown tarpon, whereas previous satellite tagging efforts were limited to tagging fish 80 pounds or larger. It is remarkable that a tarpon this size traveled such a long distance, as the fish is still years from becoming sexually mature, which was believed to be the point at which tarpon begin migrating long distances. This recent detection underscores the importance of acoustic tagging, which provides new insight into tarpon movement and habitat use during different life stages, information that is critical to BTT's conservation efforts. We thank Maverick Boat Group for its generous support of the BTT Tarpon Acoustic Tagging Project, as well as Capt. Danny Flynn and Capt. Ron Gibson, who assisted with the tagging of tarpon #15923. Stay tuned for more reports!

Tarpon Acoustic Tagging

The Tarpon Acoustic Tagging Project is a collaborative, five-year program designed to broaden our understanding of tarpon movement and habitat uses. The results will help shape future conservation measures, including the protection of critical habitats and improvements to fishing regulations. The project is generously sponsored by Maverick Boat Group.

Tarpon Acoustic Tagging is addressing the following questions:

- *Is the tarpon population large and robust or small and vulnerable?* If anglers in a particular location

are fishing for the same fish every year, then the tarpon population is probably smaller than we think, and issues like shark predation will become a bigger concern. If fish move among regions every year, and anglers are fishing for different fish each year, the tarpon population is probably relatively large.

- *Do tarpon gather in the same areas for spawning each year or move among areas?* On average, ocean currents will carry the larvae from a spawning site to juvenile habitats in a specific geographic region. If it's the same adults at the spawning site every year, then local adult losses will cause local declines in juveniles. If tarpon move among spawning sites, then the population will be more resilient.

- *How do changes in freshwater flows into coastal waters influence tarpon movements?* Do the problems with Lake Okeechobee and Everglades restoration impact tarpon? Are the water issues in Apalachicola causing changes in tarpon movements?

- *What are the movement patterns and habitat use of mid-size tarpon (20-50 pounds)? How will these tarpon be impacted by coastal water quality issues?* This size class, which is the future of the fishery, is very vulnerable to changes in coastal habitats and water quality.

Until the Tarpon Acoustic Tagging Project began, there was little information available to answer these questions. Satellite tagging provided spatial and temporal data that was limited to tarpon weighing 80 pounds and larger. After a few months, most satellite tags detached from the fish, making it difficult to study their movements over the important multi-year time frame. Acoustic telemetry has helped to combat these limitations.

Why Acoustic Tagging?

Acoustic tags provide the ability to track tarpon for five years. They are also small enough that they are being used on tarpon as small as 5 and as large as 200 pounds!

Acoustic telemetry has helped to broaden the scope of tarpon research. When deployed, a tag is surgically implanted in the fish's abdomen before safe release. The tagged fish swims within range of an underwater receiver, which detects and stores the tag's unique code. BTT and collaborators have approximately 100 receivers deployed, but we are also able to take advantage of the network of receivers being used by collaborators studying everything from redfish to sawfish. This vast network exceeds 4,000 receivers deployed from Chesapeake Bay to the Gulf of Mexico. As scientists detect tagged fish on their receiver networks they share data with other scientists, effectively expanding the study area.

How You Can Help?

- **Sponsor a Tarpon:** Sponsor an acoustic tag for $3,000. You can name your tarpon and will receive a certificate with its name and initial capture info (general location and measurements). Sponsors will receive access to a password protected site where they can see periodic updates of their tarpon's movements.

- **Sponsor a Receiver:** Sponsor and name an acoustic receiver (listening station) for $3,000. Sponsors will receive periodic reports summarizing the tarpon detections it has recorded.

- **Help us tag tarpon:** Prior to every tagging trip, our team of scientists will notify sponsors about when and where they will be working, along with contact information. If you are fishing in that area on tagging dates, all you need to do is call us when you catch a tarpon. We'll come to your boat, transfer the tarpon to our sling, and take implant a transmitter. Remember to always keep the tarpon in the water!

Contact Us Today! For more information and to sponsor a tag or receiver, please contact Mark Rehbein, Director of Development at 703-350-9195 or mark@bonefishtarpontrust.org

Photo Neal Rogers

Vision Quest: Fly-Rodding Phenom Maxine McCormick Wins Big

By Mike Hodge

She collects rubber-band bracelets, likes sporty, checkered tennis shoes and the thrill of a springy trampoline. One more thing: She just happens to be the best female fly caster in the world.

Her name is Maxine McCormick. And she is 15. That's right, f-i-f-t-e-e-n.

She's not old enough to drive, yet she has beaten Steve Rajeff and her 11-time world champion coach, all while piling up a slew of hardware at the national and world-championship levels the past three years.

At this summer's world fly-casting championships on the blustery coast of England, the then 14-year-old Portland, Oregon resident won the trout accuracy competition with 52 points, 21 points ahead of the second-place finisher and took home top honors in Salmon (two-handed) distance with a toss of 189 feet. She also placed second in the Sea Trout (one-handed) distance, launching a world-record cast of 161 feet in the prelims.
At the 2016 worlds, at age 12, she won the trout accuracy competition. To put all of this in context, Rajeff, long considered the top fly caster in the world, won his first world title in 1972 at age 16.

What do they both have in common? Extraordinary vision.

"Maxine is a super healthy outdoor kid that happens to have phenomenal eye sight," Chris Korich, McComick's coach, said. "Early on I noticed with the steps that I gave her she was able to sight and measure target distances. She was able to make her decisions and pick out the fly, make her measurements and then lay down the fly faster than anyone I've seen since Steve Rajeff. Steve had just eagle vision as a kid and still has really good vision."

McComick's vision, Korich said, has been measured at 20/10, which gives her the uncanny ability to process the intricate relationships between distance, target and loop trajectory.

"It's like target shooting," Korich said. "You see your fly in the air, you measure your target. From an accuracy target shooting standpoint, what people don't realize is that distance casting is extreme accuracy casting. When I'm going to cast beyond a normal fishing distance, bomb something over 150, 200 feet, the precision it takes to do that is like any other sport at the highest level, a lot of precision, like when you steer an Indy 500 car, so you don't hit the guy next to you. Eyesight and reflexes are important at 200 miles an hour. When Rajeff and I are making a distance cast, we're aiming, figuring out where the wind is going and where to throw this cast. We're picking a reference mark. It's not just side to-side-alignment. It's a trajectory based on the wind, higher, lower.

"We're constantly aiming. It's like fishing casts. What percentage of your fishing casts are you not aiming?" McCormick not only aims, she focuses. Her practice sessions are usually short, but rarely does her concentration stray.

"She is like Michael Jordan focused on that task," Korich said. "I don't say that lightly. She has that focus. She has that intensity. She can't stand losing. She can't stand getting beat."

The Golden Gate Angling & Casting Club alumna does not lack perseverance. Perhaps that explains her affection for fly casting.

"At first it was a challenge and I like a challenge," McCormick said. "Competition is also really fun. And every time I go fly cast, I know it's going to improve my fishing, which also motivates me. That's something

BACKWATER FISHING ADVENTURES With Capt. David Borries

Capt. David Borries' Backwater Fishing Adventures

904-708-8915

captdavidborries@comcast.net

I like about it as well."

McCormick's training started with the fundamentals, the length of stroke, the grip and the stance — albeit with down-sized tools of the trade — an old Fenwick Eagle. Korich sanded the handle for proper sizing.
"I'm like the Soup Nazi (from Seinfeld) on how you grip the handle," he said. "It's not an option for me. If the grip doesn't fit, I'm going to get it right."

Korich chose the Fenwick because of its slow action. He wants his new students to feel the bend in the rod. He now recommends the 7 and 8-foot TFO Bug Launcher for younger beginners to simulate the ebb and flow of the rod load.

"The handle is smaller, for smaller hands with compressed cork," Korich said. "That's important, just like if you don't have the appropriate size with a tennis racquet, baseball bat or golf clubs. It's ridiculous we don't have handle options in fly fishing. (The Bug Launcher) has standard graphite and fuller action. It bends deeper down to your hand. You can feel what you're doing."

Each of Korich's Bug Launchers are balanced with a ultra-light reel — for a reason.

"They're balanced in such a way you can keep a relaxed grip," Korich said. "When you get everything right, you barely have to hold on to the rod to rotate the rod correctly. And it's easy to stop the rod. You don't have to grip the handle tight, so you can throw smoother loops."

Meanwhile, McCormick's skinny loops continue to pierce the competition. With the 2018 World Championships now fully in the rearview mirror, the fly-casting community now turns its attention to the 2020 Worlds in Sweden, and all indications are McCormick probably will return to defend her titles.

"My goal for the longest time was to become the World Champion," she said. "That continues to be my goal."

Long-term expectations, however, have yet to be defined and likely will be dictated by how long McCormick wants to compete.

"Assuming fair conditions, no one's going to beat Maxine," Korich said. "The foundation we've laid, the mechanics, her loops, are so superior to 95 percent of the competition — men, too — it's just a question of whether she wants to put the work in with all the things that will be going on later on."

DRUMMAN FISHING CHARTERS

904-687-9498
www.drummancharters.com
drummancharters@att.net

Thoughts on Maxine and her success on the competitive fly-casting circuit? Ever tried the Bug Launcher? Feel free to share your comments on one of our social media pages.

Editors Note: This article originally appeared in the Temple Fork Outfitters Blog - https://tforods.com/maxine-mccormick-world-champion/

Maxine can cast better than you even in the dark. See for yourself by clicking the image or posting the following link in your internet browser: https://vimeo.com/177160667

BOAT FOR SALE

1986 Sea-ray Model 235 Weekender
5.7 Liter V8 Mercury Cruiser Outdrive

This Sea-Ray and trailer are in excellent condition. They have never seen saltwater. It has a great layout and comes complete with the following features:

- **560 Hours on Engine**
- **2 Aluminum Props & 1 Stainless Steel Prop**
- **Twin 12-Vol Marine Grade Batteries**
- **Freshwater Holding Tanks**
- **Electric and Gas Stove**
- **Sink**
- **Refrigerator**
- **Dinette Table**
- **New Stereo with CD Player**
- **Onboard Lighting 12-volt (120 volt AC)**
- **Sleeps 4 (2 below deck, 2 on deck)**
- **Enclosed Head with portable toilet**
- **Ship to Shore Power**
- **Plenty of onboard storage**
- **Running covers with screens**
- **Trailering cover**
- **Twin axel galvanized trailer with all new brakes**

For more information contact:

David.Sheasley@gmail.com

2018 Holiday Gift Guide

Another year of fly fishing is in the books and the holidays are upon us. Once more we have scoured the world of outdoor retail in search of the perfect fly fishing gifts. Whether you are shopping for someone else or dropping hints for what that special someone can get you the items on this year's list are sure to please. Remember to shop local, and support the local businesses and guides that support our Club year round.

1. The Bubba Blade™ 9 inch Stiff Fillet Knife

If you're looking for a multi-purpose knife look no further. This fillet knife doubles as a utility knife for meat carvers. The 2mm-wide blade on Bubba Blade 9-inch Stiff Fillet Knife is ideal for precision cutting. Its beveled edge allows for thinner and crisper cuts. This full tang constructed knife has little flex making it controllable and great for any Amberjack. The 9-inch blade is non-stick creating a clean effortless cut through fish or meat and provides safety guards for your protection.

FEATURES

- 9" blade with 6" handle, overall 15"
- Trigger grip for additional pressure
- Thumb and finger pads for complete control
- Weight 7.6 oz.

Custom synthetic sheath.

Retail Price: $54.95
www.bubbablade.com

2. Patagonia Stormfront Wet/Dry Duffle

Perfect for river take-outs, surf breaks and trailheads where separating water and gear is mandatory. Welded and highly weather-resistant, this duffel has a floating divider to maximize space where you need it. The Stormfront® Wet/Dry Duffel separates wet and dry items with a coated, floating baffle so your dripping waders don't soak your "coming home" shirt. This bag is made with a burly 100% nylon core with a TPU coating, and features nonsubmersible 100% waterproof welded construction and large, burly zippers for easy access. Details include an adjustable, removable, padded shoulder strap, reinforced haul handles, and an interior mesh pocket to keep small items within reach. Meets most domestic airline carry-on requirements.

FEATURES

- Durable and burly nylon core with a TPU coating provides a nonsubmersible 100% waterproof package
- Top and bottom split compartments, and large burly zippers for easy access, allow you to organize wet and dry gear as needed; floating divider provides space where you need it
- Reinforced haul handles and removable shoulder strap for easy carrying
- Utility keepers provide easy attachment without piercing the waterproof fabric
- Interior zippered mesh pocket

Retail Price: $249.00
www.patagonia

3. Loon Rogue Quickdraw Forceps

The ultimate hemostat, thoughtfully designed from the tips to the jaws to the handle. A carabiner handle means you can store anywhere and the tight angles and engineered shape accommodate all fly sizes, allow for easy hook removal, and can crimp even the heaviest of barbs. Oversized thumb and finger holes accommodate large or gloved hands, and the compact cutting surface easily clips light or heavy leader.

Retail Price: $24.95
www.loonoutdoors.com

4. AeroPress Coffee and Expresso Maker

Tired of drinking burnt gas station stop coffee during those early morning trips to the boat ramp? Then look no further than the AeroPress. The AeroPress coffee maker is a new kind of coffee press that brews coffee under ideal conditions: proper temperature, total immersion, and rapid filtering. This results in amazingly delicious coffee with a wide range of beautiful flavors but without bitterness and with very low acidity. Since its introduction the AeroPress has become a much be-

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loved brewer for serious coffee lovers and coffee professionals around the world.

The AeroPress coffee maker is most commonly used in the home kitchen but it is lightweight, compact, and durable, making it ideal for use when camping, backpacking, boating, or just traveling. The AeroPress is available with a zippered nylon tote bag that makes it easy to travel with the coffee maker and a bag of coffee. Packs of 350 replacement filters can be purchased from many retailers that carry the AeroPress.

Retail Price: $29.95
ww.aeropressinc.com

5. Thomas & Thomas Zone Fly Rod

The Thomas & Thomas won the Best of Show at this years International Fly Tackle Dealer show in Orlando. And it continues to get rave reviews. The Zone series pushes the envelope in both performance and price, bringing the latest R&D from Thomas & Thomas to more fly anglers than ever before. Sharing the advanced StratoTherm resin developed for the acclaimed Avantt and Exocett series, Zone rods are rolled and built by hand alongside those flagship models right here in our Massachusetts, USA facility.

Zone rods bring the legendary T&T feel and performance to a versatile lineup of 9 new models ranging from 3wt to 10wt.

FEATURES

- 3wt-4wt Medium/fast action 5wt-10wt fast action.
- Natural finish carbon appearance.
- Clear anodized premium aluminum hardware.
- Blue fiber reel seat hand rolled at T&T.
- Composite reinforced premium-quality cork grips.
- Titanium frame stripping guides with Zirconium inserts.
- T&T Blue thread with silver accent wraps.
- Includes aluminum rod tube with Thomas & Thomas Zone logo.

Freshwater (3wt-7wt) rods feature chrome single foot guides and hook keeper

Saltwater (8wt-10wt) rods feature Snake Brand E-Coating Universal Snake guides

Retail Price: $495.00
www.thomasandthomas.com

Vaughn Cochran
And
Black Fly Outfitters
11702 Beach Blvd, Ste 103
Jacksonville, FL 32246
(904) 994-2220
www.blackflyoutfitter.com

6. Black Fly Luggage Tags

Black Fly Outfitter's new embroidered luggage tags featuring Vaughn Cochran's art will set your bags apart and help you find your luggage among the black sea of Samsonite bags. These tags are long lasting and will not crack or break like plastic tags. The tags measure 4.5" by 2.5" and have a clear vinyl strap to attach to your bag. The back of the tag has an information card for your personal data. The tags come in four different designs.

Retail: 6.99
www.blackflyoutfitters.com

7. Lamson Speedster Black Fly Fishing Reel

Go full throttle. A special edition reel, this Speedster is finished in an anodized black color with orange accents on the drag knob and drag cassette to add a little extra flair. A super-high retrieve rate reel, the Speedster features a narrower spool, inboard mounted handle, and an outer diameter significantly larger than our highest performing reels. The narrow spool prevents line barreling, while the inboard handle and added circumference improve retrieve rate. Rev these features up with our classic Waterworks-Lamson styling and attention to detail—plus our time-tested, maintenance-free drag system—and you have what the name implies: a reel hot rod.

The reel comes in six difference sizes to accommodate line weights from 3 to 10 with ample room for backing. The Speedster 4 will hold 250 yards of 30 pound backing with a 10 weight line.

Retail Price: $299.99 to $429.99 depending on reel size. Extra spools range from $140.99 to $159.99
www.waterworks-lamson.com

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ZONE 908-4

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NAME:
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Speedster

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8. The TyWheel

One of the best new fly-tying accessories to come on the market in a long time. A new and innovative solution to fly tying that takes up little room, but offers big features. Ty Wheel fits on the stem of your vise and essentially serves as a lazy susan, keeping material organized and right at your fingertips. Magnetic, the Ty Wheel holds tools and hooks in place. Four removable attachments allow you to configure the wheel to your specific needs. Attachments include: trash bin, tool slots with holes that can be used for tying tool storage, three shallow trays to hold hooks and beads, and five metal posts that store thread and wire spools vertically or horizontally. In black nickel. 10" in diameter with components. 7¼" without. Imported.

Gain up to 2" in height, fine-tune your vise height, and get back the ½" that the Ty Wheel takes up on your vise. This easy-to-install extension fits onto the shaft of your vise and allows you to attain your jaw-height sweet spot. For use on both C-clamp or pedestal-base vises.

Retail Price: $150
www.tywheel.com

9. Simms Dry Creek Boat Bag

Add airtight protection and intuitive storage to your on-the-water kit, with the cavernous 41L Dry Creek® Boat Bag. From the top, a PU embossed, compression molded lid is smash-, water- and foolproof thanks to a magnetized, adjustable Catch & Release latch. Ultra-rugged 420D nylon waterproof fabric, with RF-welded seams, enhances exterior durability, while a detachable shoulder strap doubles as a convenient bag leash for rough waters. Additional details include ample loop patches, removable exterior fly-box pockets that synch with Simms wading belts, and easy-access tool docking stations located on both side-panels.

FEATURES

- Ultra-durable TPU coated material is fully waterproof
- Magnetized Catch & Release buckle keeps lid securely closed without the use of the zipper
- Compression molded lid overhangs main body of the bag to repel water when zipper is not fully closed
- Interior dividers for gear organization
- Hypalon strap attachment points at the sides of the bag

FABRIC TECH: Waterproof TPU coated fabrics
DIMENSIONS: Bag 17.5" x 2 1/4 x 6.5";
Removable Pockets: 7.5" x 2 1/4 x 6.5"
CAPACITY: 41 L, 2516 cu. in.
WEIGHT: 69 oz

Retail Price: $279.95
www.simmsfishing.com

10. Sage X Fly Rod

The X rod's fast action taper built with our KonneticHD Technology delivers greater blank recovery and a crisper tip stop - creating tighter, more efficient loops throughout all ranges of casting styles. This taper allows you to dig deeper into the rod and access the lower sections, shifting power closer to the angler. Decreased lateral and medial movement and vibrations in the blank result in a more accurate and efficient presentation, resulting in a performance driven, forgiving fast action blank - refining the synergy between angler, rod, line, and fly.

FEATURES

- KonneticHD Technology®
- Black Spruce blank color
- Dark Green thread wraps with Metallic Grey trim wraps
- Fuji ceramic stripper guides with hard chromed snake guides and tip-top
- Laser etched line weight on slide band
- Black rod bag with Titanium logo and Black Spruce model tag
- Evergreen powder coated aluminum rod tube with Sage medallion

Retail Price: $900
www.sageflyfish.com

Capt. Lawrence Piper
And
The Angler's Mark

(904) 557-1027

THE ANGLER'S MARK

www.theanglersmark.com

11. Handcrafted Leather Journal

What better way to keep record of your fishing adventures than with a leather journal hand-crafted by local guide Captain Lawrence Piper. Captain Piper painstakingly crafts each journal. They are hand dyed and tooled to order. Perfect for recording those memorable days on the water.

Retail Price $105.00 plus tax
www.theanglersmark.com

12. Bote RoverAero

It's a skiff. It's a dingy. It's a tender. It's a paddle board. It's a BOTE...in a bag. Meet the Rover AeroBOTE, the most portable paddleskiff on the market. Transforming from travelbag to BOTE and back again, it's easy to store, tags along on any adventure, and stands up to the toughest tests on any waterway, and hell...even baggage claim. So as you're paddling, fishing, or motoring your way across the globe, Rover AERO's got your back.

The portability of AeroBOTEs is undeniable. Whether you have a smaller vehicle with no roof mounting system or you take public transportation, the Rover Aero can go with you. The Rover Aero Bag features wheels which allows you to easily transport your Rover Aero to places other boards can't reach.

What goes up, must come down. The steps it takes to get a Rover Aero on the water and then back and ready to travel: remove the rolled up board from the Rover Aero bag, unroll, attach the included AeroGo pump to the lower chamber valve located at the bottom of the deck pad, and then The upper chamber valve located at the nose. Each chamber is to be filled until the pressure reaches 11 PSI. When you are ready to pack it up, do everything in reverse ... easy as 1,2,3.

The AeroGo Rechargeable Pump makes short work of inflating (and deflating) your Rover Aero. Just connect the hose, set the PSI and go. Don't worry about finding an outlet or hooking up to a car battery, the AeroGo will inflate and deflate your Rover Aero 2-3 times on a single charge. It comes in it's own convenient carry bag and fits inside the Remora Bag for transport with your Rover Aero, wherever you're off to. The best part, it's included with the Rover Aero (a $250 value).

Constructed from Military Grade PVC using Drop Stitch technology the Rover Aero is not only virtually indestructible, but it's also rigid as a plank. Capable of supporting up to 500lbs of weight, Rover Aero can take a beating an still come out on top.

Rover Aero evolved from the most innovative paddle boards on the planet, and was designed as a paddle board first. It's generous rocker and flat bottom paddles with ease through a variety of water conditions.

With a staggering amount of standard features, you can outfit the Rover Aero the way you want for the things you want to do. And since there isn't much you can't do with it, go ahead and deck it out.

Retail Price: $2,499.00
www.boteboard.com

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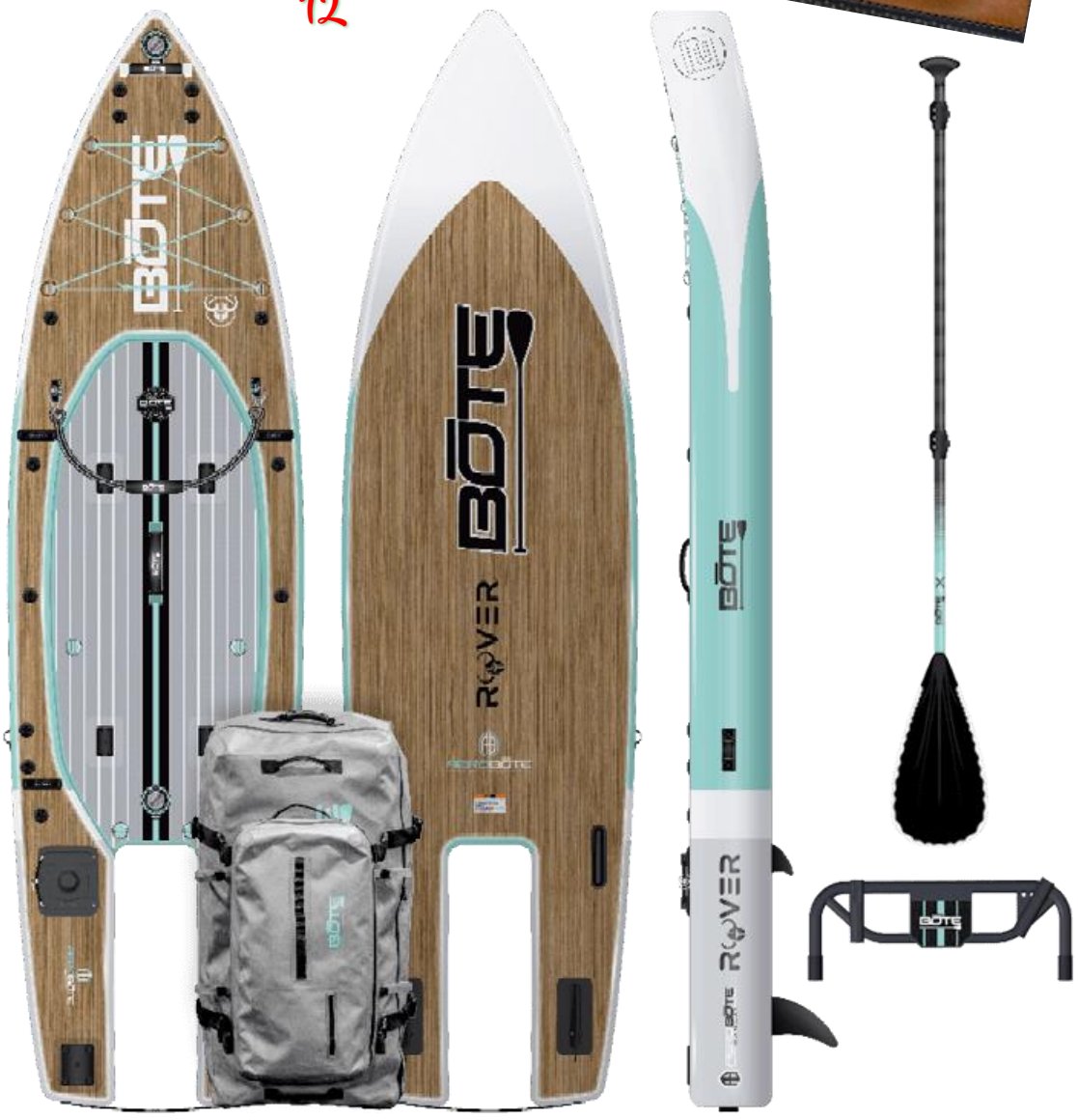

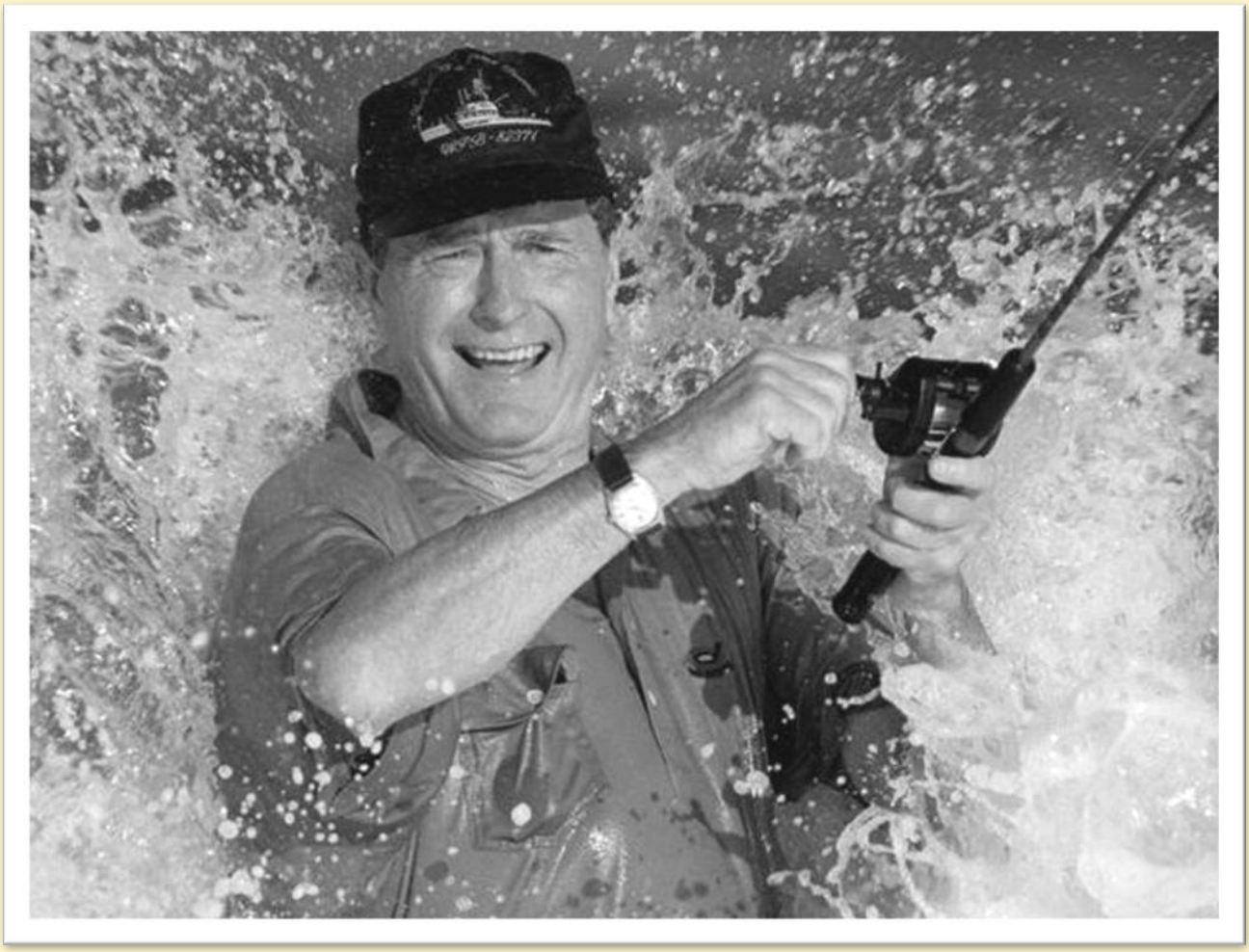

"In crucial things, unity. In important things, diversity. In all things, generosity."

George H.W. Bush
41st President of the United States
Fisherman

Renzetti Fly Fishing School
Friday December 7, 2018

One Day Fly Fishing School with Bob Clouser and Jon Cave. This ONE day class is designed to take both beginning and experienced anglers from the fundamentals of fly casting to the most advanced techniques. Class size is limited and instruction is customized to each student's abilities and needs. Consequently, anglers of all skill levels will benefit from the intensive curriculum, regardless of whether they're making their first cast or just in need of a tune-up. This class will center around student participation. A variety of hands-on exercises will help you sharpen your skills as you increase your knowledge.

Class will start at 8:30 AM and runs until 4:00 PM. This class includes lunch, refreshments, signed copies of *Performance Fly Casting* by Jon Cave and *Clouser's Flies* by Bob Clouser. Participants will also receive an entry ticket for Saturday's Renzetti Fly Fishing and Rod Building Fair

Participants must bring your equipment.

Minimum 8 Anglers. Max 10 Anglers

Accommodations: For those that would like to spend the night in Titusville we have reserved a small number of rooms at the Holiday Inn Titusville at a special rate. Please use RENZETTI FAIR when you call.

More Information: For more information about the Fly Fishing School, contact Jon Cave at (407) 977-0659 or jon@jonbcaveflyfishing.com

Other event planned for Friday and not included with the school is An Evening with the Legends Fundraising, Cocktail Reception with heavy appetizer, auction items and a presentation by Dr. Brandon Schuler.

Cost is $75.00, please call Renzetti for reservations 321 267 7705.

FWC Commission to Meet in St. Augustine December 12th and 13th

The Florida Fish and Wildlife Conservation Commission (FWC) will meet Dec. 12-13 at World Golf Village Renaissance St. Augustine Resort, 500 S. Legacy Trail, St. Augustine, Florida 32092. Both days are open to the public.

The FWC is committed to providing opportunity for public input at each Commission meeting. As standard practice, the Commission welcomes public input regarding agenda items using the established speaker registration process and time limits. To accommodate as much input as possible from those attending, the Chairman reserves the right to designate the amount of time given to each speaker, including time donation to other speakers.

The meeting is scheduled to start at 8:30 a.m., and the public will be provided opportunities to speak on agenda items each day. The Commission will also provide time for public comment on subjects not on the agenda at the end of the first day, Dec. 12. Those who wish to offer comments during this period will be asked to make sure their comments are not related to any agenda item.

AGENDA

Draft regulation changes (these items will be discussed at the meeting and, if approved, will be brought back to a future meeting for final decision):

- **Shore-based shark fishing:** Potential draft changes to increase survival of released sharks, improve information gathering about the fishery and address some of the public safety concerns related to the fishery. Proposed changes include:
  - ◊ Creating a mandatory, no-cost, annual shore-based shark fishing permit
  - ◊ Prohibiting chumming when fishing from beaches
  - ◊ Prohibiting delaying the release of prohibited shark species
  - ◊ Requiring prohibited species remain in the water (shore and vessel) as much as practical without putting the angler in danger
  - ◊ Requiring the use of non-offset, non-stainless-steel circle hooks with live or dead natural bait (when fishing from shore and from a vessel)
  - ◊ Requiring the possession/use of a device capable of quickly cutting the leader or hook (shore and vessel)
  - ◊ Clean up and update of current rule language

- **Marine Life harvest at Blue Heron Bridge dive site:** Potential draft changes to conserve this unique and valuable snorkeling and diving area by prohibiting all collection of tropical aquarium species (Marine Life fishery) at the Blue Heron Bridge dive site in Palm Beach County.

- Gulf red snapper (in the Gulf Council update presentation): Potential draft changes to set the 2019 Gulf red snapper season to open June 11-July 12 and have a fall reopening if quota is available.

Discussions:

- **Saltwater Recreational Data Collection**: Update on efforts to improve collection of saltwater recreational data including results from the Gulf Reef Fish Survey and options for future enhancements.

- **Goliath grouper**: Review and discussion on the next steps for goliath grouper research and management. Staff will ask for direction on adopting a management goal for goliath grouper in state waters.

- **Marine Fisheries Management Annual Workplan**: A review of new and ongoing marine fisher-

ies management issues and request approval of the 2019-2020 workplan.

- **Federal fishery management updates**

Consent agenda (a final decision may be made on this topic Dec. 12):

- **Tarpon tag rule cleanup:** Proposed clarifications that would continue to allow the use of a tarpon tag when in pursuit of a Florida state record (FWC recently took over management of the state record program) and clarify that tarpon over 40 inches fork length cannot be removed from the water unless harvested in pursuit of a state or world record using a tarpon tag.

The full agenda for the meeting along with the supporting documentation and materials may be found by going to the following link: http://myfwc.com/about/commission/commission-meetings/2018/december/12/agenda/

Snook Gulf Season Closes Dec. 1; Atlantic closes Dec. 15

Recreational harvest season for snook closures include:

- Dec. 1 in Gulf federal and most Gulf state waters, including Monroe County and Everglades National Park, and will remain closed through Feb. 28, 2019, reopening to harvest March 1, 2019.

- Snook and red drum remain catch-and-release only in all state waters from the Hernando/Pasco county line through Gordon Pass in Collier County through May 10, 2019. Includes Tampa Bay and all of Hillsborough County.

- Dec. 15 in Atlantic state and federal waters including Lake Okeechobee and the Kissimmee River, and will remain closed through Jan. 31, 2019, reopening to harvest Feb. 1, 2019.

Snook can continue to be caught and released during the closed season.

Link for more information: http://www.myfwc.com/fishing/saltwater/recreational/snook/?utm_content=&utm_medium=email&utm_name=&utm_source=govdelivery&utm_term=campaign

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Florida FWC Uses Telemetry in Goliath Grouper Study

Acoustic telemetry is used to measure impacts of catch-and-release fishing on Goliath grouper and to determine behavior patterns of this federally protected species.

Goliath grouper (Serranidae: *Epinephelus itajara*) occur in tropical and subtropical waters from the west coast of Africa to the east coast of Florida, south to Brazil, and throughout the Gulf of Mexico and the Caribbean Sea. One of the world's largest groupers, this species can grow to over 7 feet long, exceed 750 pounds, and live at least 37 years. Goliath grouper grow slowly, mature relatively late (4-6 years old), and aggregate to spawn.

Harvest of goliath grouper was prohibited in U.S. waters in 1990 after a noted decline in population numbers. In 1994, they were listed as critically endangered on the IUCN World Conservation Union's Red List of Threatened Species (www.iucnredlist.org). Goliath grouper are currently protected from harvest in U.S. waters though there are fisheries for goliath grouper in some countries. The status of the species throughout its entire geographic range is unclear and there are many factors that increase goliath's susceptibility to overfishing. For more information regarding goliath grouper biology and regulations, please visit the Goliath Grouper Web section.

Protection from harvest does not ensure that fishing mortality is negligible. Recreational fishing charters

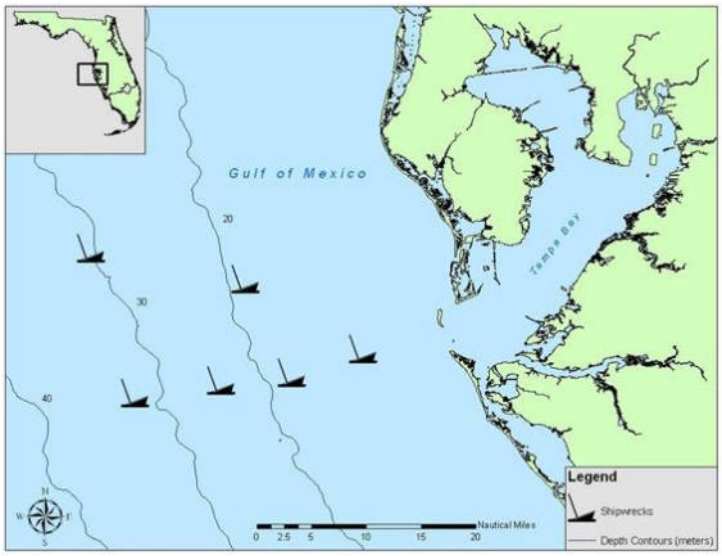

Figure 1. Map of the study area. Acoustic receivers were placed at designated shipwrecks shown in previous research to be frequented year-round by goliath grouper. Depths ranged from 40 to 105 feet.

throughout Florida advertise goliath grouper as a prime target species for catch-and-release fishing. A fish of this size produces a challenging and exciting fight on rod and reel. Goliath grouper are also often caught unintentionally during angling efforts for other reef species. While their primary diet consists of slow moving, bottom-dwelling species, they are opportunistic predators that occasionally feed upon a struggling fish being reeled in by anglers.

To date, the effects of catch-and-release angling on goliath grouper have not been established. As with many reef fish, angling at deeper depths may result in gas expansion and extensive boat-side handling that can cause injury or mortality. Additionally, goliath grouper often remain at the same sites for extended periods, so repeated capture events may affect their survival at heavily fished sites.

Goals

The primary goals of the goliath grouper telemetry program are twofold:

1. To describe the effects of catch-and-release angling on the survival of goliath grouper across a range of depths.
2. To quantify the long-term behavioral patterns and residence times of goliath grouper within the study area.
3.

Acoustic telemetry and conventional tagging will be used to assess both immediate and long-term effects of catch-and-release angling and to provide data regarding residency and behavior of this protected species. Goliath grouper are known to remain in the same area for extended periods, and they have a tendency to aggregate around habitat such as shipwrecks. The monitored shipwrecks in this study (Figure 1) have been chosen based on ongoing research that indicates consistent goliath grouper presence. Quantitatively assessing the effects of catch-and-release angling for goliath grouper, in addition to continued investigation into population dynamics, movement patterns, and stock structure, will provide valuable information for future management or regulation.

Methods

Goliath grouper are caught using typical recreational fishing gear. Once at the surface, goliath grouper are left in the water and positioned at the side of the boat so that they can be measured, photographed, and fitted with tags. Two external tags are inserted just beneath the dorsal fin. The first is a conventional ID tag (Figure 2), and the second is an acoustic transmitter, or "pinger" (Figure 3). Each pinger has its own unique code that will allow for the identification of individual fish. Goliath grouper are tracked manually immediately after release, which provides information regarding short-term survival and behavior after a catch-and-release event.

Two to four acoustic receivers (hydrophones) are permanently deployed at each monitored shipwreck. Each receiver has a listening area of approximately 500,000 square meters, or 124 acres. Whenever a tagged fish swims within listening range (Figure 4), a hydrophone will record the fish's individual ID as well as the time, date, and depth of the fish within the water column. These data will yield information regarding long-term movements and behavioral patterns of goliath grouper at the study sites.

Conventional external ID tags are attached to each goliath grouper to provide recapture/resighting data through

CAPT. TROY
FLY FISHING OR LIGHT TACKLE
INSHORE / OFFSHORE
BOAT OR KAYAK
904.608.8299
TROY@CAPTAINTROY.COM
CAPTAIN TROY .COM

Figure 2. Sightings of fish with conventional ID tags can be reported to the FWC's Angler Tag Return Hotline, 800-367-4461, with details including the date, location, and condition of the fish.

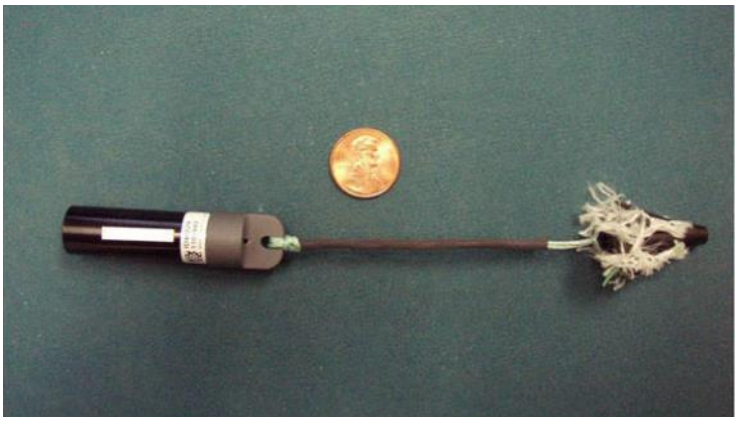

Figure 3. Each acoustic transmitter has a unique code that allows goliath grouper to be identified individually. Transmitter darts are inserted into the flesh below the dorsal fin.

diver surveys and angler recapture reports. Any tagged fish that are observed should be reported to the Florida Fish and Wildlife Conservation Commission's (FWC) Angler Tag Return Hotline, 800-367-4461. Researchers need to know the date and location of the sighting and the relative condition of the fish.

Movement and behavioral data will indicate the effects of catch-and-release fishing on this reef species. Minimum estimates of survival immediately after a catch-and-release event can be assessed. Long-term acoustic telemetry data will allow for estimates of residence time for individuals at specific sites. Continued underwater surveys will provide further information regarding abundance, size distribution, and seasonal patterns for goliath grouper within the study area. It is the goal of this project to synthesize these data for a better understanding of goliath grouper biology and ecology that can support the development of responsible and effective management.

To learn more about our telemetry studies, visit the **Acoustic Telemetry Research** section.

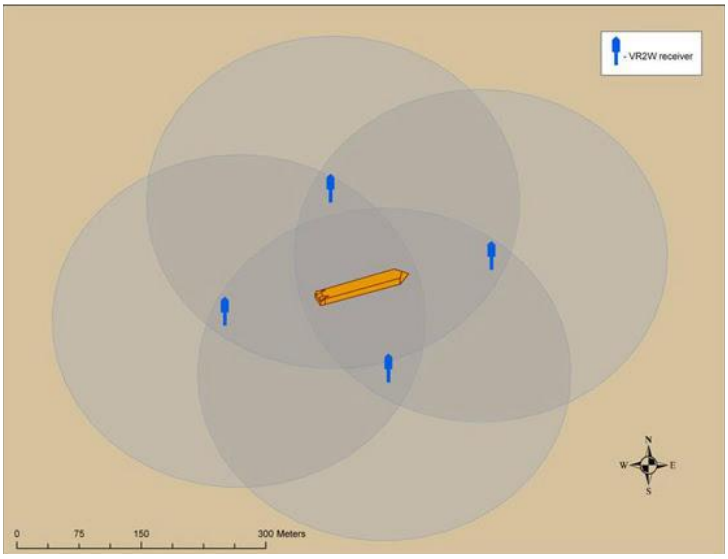

Figure 4. Example of an underwater acoustic array. Receivers positioned strategically around the shipwreck maximize the monitored area and ensure adequate detection of tagged fish. The rings on this map represent a listening radius of 100 meters (109 yards), although receivers may have a much greater listening range (up to 800 m, or half a mile) under ideal conditions.

BLACK CREEK OUTFITTERS
JACKSONVILLE, FLORIDA WWW.BLACKCREEKOUTFITTERS.COM

Wading in saltwater can lead you to experiences impossible to realize in your otherwise loud and busy life

- Tom Rosenbauer

Save The Date

6th Bienniel Renzetti

FLYFISHING & ROD BUILDING FAIR

FRIDAY
07
DECEMBER

SATURDAY
08
DECEMBER

SPECIAL PRESENTATION BY
BOB CLOUSER

WITH SPECIAL GUESTS
BOB POPOVICS - JON CAVE - BLANE CHOCKLETT
CHRIS KINCAID -DAVE SCHMEZER- SARAH GARDNER
STEVE FARRAR - DAVE OLSON - AND MORE TBA

AT RENZETTI INC.

8800 GRISSOM PARKWAY, TITUSVILE, FLORIDA 32780

December's Outing....

Renzetti Fly Fishing & Rod Building Fair

This month the Club will be attending Renzetti's Fly Fishing & Rod Build Fair at their facility in Titusville on Saturday December 8th. There are events planned for both days, with opportunities to learn from some of the greats in the fly fishing community.

Events are planned for both Friday and Saturday. Here is more information about the Fair from the Renzetti website:

The Fly Fishing & Rod Building Fair Is Here! Get ready for two full days of fun and learning from some of the biggest names in fly fishing. Hands on classes and seminars all day Friday. Please note that at this year's event we are concentrating on education more than anything, and therefore the the number of exhibitors is limited.

Friday December 7th

Friday December 7th - 10am to 4pm . Kids under 15 are free

8:30 am to 4:30 pm: Fly Fishing School with Bob Clouser and Jon Cave. Not included with your Fair ticket. **Reserve soon, limited to 10 anglers**

8:30am to 4pm: Ladies Fly Fishing School with Capt. Sarah Gardner and Caley Smith. Not included with the Fair Ticket. **Reserve soon, limited to 10 anglers.**

Friday will be a full day of fly tying, fly casting and rod building presentations. At the vise we will have Bob Popovics, Steve Farrar, Dave Schmezer, Jay Murakoshi and many others. Kurt Baker, Mike and Dennis Papike will show us the many aspects of building a rod and weaving. Raz Reed, Eric Davis and Frank Catino among others will educate us on the science behind a fly rod and fly lines.

6:45 pm to 9 pm An Evening with The Legends Fundraiser - Ticket needed.

This normally a SOLD OUT event. Don't Wait!

All proceeds from the Friday evening Fundraiser will benefit BULLSUGAR.ORG & MERRIT WILDLIFE ASSOCIATION EDUCATIONAL FACILITY.

Saturday Dec 8th 9am to 4:00 Kids under 15 are free

In addition to the presenters on Friday, Bob Clouser, Jon Cave and Sarah Gardner will join us at the vise or on the casting area.

The fundraiser will continue on Saturday with raffles and the drawing for the Custom Gheenoe Boat and the Renzetti Master Vise at 2:30pm.

Proceeds to benefit Bullsugar Alliance, and Merritt Island Wildlife Association Educational Building.

As always the fair will be held at Renzetti Inc. 8800 Grissom Parkway, Titusville, FL 32780. Advance entry ticket is recommended to assist us with planning. Tickets at the door will be higher.

Accommodations: For those that would like to spend the night in Titusville we have reserved a small number of rooms at the Holiday Inn Titusville at a special rate. Please make your reservation soon at :

https://www.holidayinn.com/redirect?path=hd&brandCode=HI&localeCode=en&regionCode=1&hotelCode=TIXSR&_PMID=99801505&GPC=FLY&viewfullsite=true

If you would like to keep up to date with what's happening check out our Facebook page or see the event link.

NOVEMBER REDS

On an otherwise dreary November day, Bart Isaac brave the constant threat of rain to fish the low tide. His persistence paid off with a pair of reds. The fish were backing in the creeks rooting in the mud. With a couple of well placed casts, Bart netted both fish. Each was in the 27 to 28 -inch rang.

Not bad for a day when most folks would have decided to stay home and watch football.

2014 East Cape Vantage

2014 East Cape "Vantage" 19.2 foot flats boat powered by a 2014 Yamaha F-115 hp outboard with only 80-hours. Includes Garmin GPS/digital fish finder, Ramilin galvanized float on boat trailer with spare tire/grease bearing hubs, 24-volt Minn-Kota GPS 24-volt, 80-pound thrust bow mounted trolling motor,3-odysey light weight batteries, on board 3-bank automatic battery charger,pop up cleats, 8-foot "Blade" power pole with remote, V Marine push pole cleats, Raycor fuel/water seperator,sea deck under gunnel,custom leaning bar for poling platform, bow raised deck platform with leaning bar, Len Co trim tabs, 36-gallon live well, cooler. like new, less than 80-hours, $37,000.00. **Call or text (502) 552-2583**

Guru Series II Fly Fishing Reel

So far, no one has managed to answer all of the trivia questions correctly. But you don't have to have all the answers. You just need more than the other guy in order to lay your hands on **Lamson Guru Series II Fly Fishing Reel** to be giving away at the end of the year. I you haven't signed up for the trivia contest, be sure to do so today.

Here is the November Question...

The December Question

This local fly fishing legend was one of the anglers featured in the cult-classic movie *Tarpon*?

The December Bonus Question

This legend played the washboard in what famous band?

Email your answers to the Newsletter Editor at fcffnewsletter@gmail.com.

Each participant will be awarded 1 point for each correct answer. You do not loose points for incorrect answers.

Half-a-point (0.5) will be awarded for each correct answer to the bonus question. However, in order to receive credit for the bonus question, you must answer

It is time...

To renew your annual membership to the First Coast Fly Fishers. Year after year the First Coast Fly Fishers promotes fly fishing throughout northeast Florida by providing our members with opportunities to learn and experience the joys of exploring nature with a fly rod in hand.

Looking for a unique Christmas gift, why not introduce someone to fly fishing and purchase them a Club membership.

As a member-in-good standing you and your family are entitled to monthly meetings and outings; free casting instruction with local Certified Casting Instructors; free fly tying classes and seminars with the likes of Bob Clouser, Jon Cave and Mac Brown at no additional cost.

All members who pay their membership by the **January 7th meeting** will be entered to win a new **Temple Fork Outfitters Prism Reel!**

_____ (Year) MEMBERSHIP APPLICATION
FIRST COAST FLY FISHERS
WWW.FCFF.ORG

☐ New ☐ Renewal ☐ Youth/Student

Member Information **(If renewing, only complete the informaiton that has changed)**

Name _____ Spouse's Name _____

Name (Age) of Fly Fishing Children _____

Mailing Address _____

City _____ State _____ Zip Code _____

Home Phone: _____ Alternative Phone _____

Email Address: _____

☐ Please check this box if you do not use or have access to email.

Emergency Contact Name: _____ Phone: _____

Medical Information:

Blood Type: _____ Allergies? _____

Current Medications? _____

Any Current Medical Conditions? _____

Occupation: _____

Other Interests _____

Who or what influenced you most to take up fly fishing and/or join FCFF? _____

Membership Dues

Annual Club Membership is $100 and includes all family members. Please make checks payable to: *First Coast Fly fishers*

Please Return Application To:

First Coast Fly Fishers
Membership Chariman
PO Box 16260
Jacksonville, FL 32245-6260

Payment Type

☐ Check - Check No. _____

☐ Cash

Fly Fishing Experience

Overall Fly Fishing Background

Please rate your overall fly fishing experience by checking the appropriate boxes

☐ Freshwater ☐ Saltwater ☐ Both Fresh/Saltwater

☐ Beginner ☐ Moderate ☐ Advanced

Casting Proficiency

Please rate your casting proficiency

☐ Beginner - Little or no experience, or would like to learn the basics of fly casting

☐ Intermediate - Know the basic principals and would like to improve accuracy and/or distance

☐ Advance - Able to accurately cast an 8-wight line 60-feet with relative ease.

☐ Instructor - Professional fly casting instructor and/or guide.

Fly Tying

Fly tying is not a critical element of fly fishing; but, it is fun and rewarding. Rate your fly tying experience

☐ Non-tyer ☐ Beginner ☐ Intermediate ☐ Advanced or Professional Tyer

Boat

Please provide information regarding whether or not you own a boat, kayak or canoe

☐ Boat Owner
Make _____ Type/Size _____

☐ I do not own a boat

Club Participation

FFCF is a not for profit club. Its success relies solely on its members who serve on the board; plan outings/events; and conducting special activities. Please indicate any areas of interest you are willing to provide assistance. Please be assured we are happy to have you as a member regardless of your level of participation.

☐ Newsletter	☐ Youth Instruction	☐ Fly Tying Instruction
☐ Special Events	☐ Conservation/Education	☐ Take a new member fishing
☐ Banquet	☐ Membership	☐ Registration Table
☐ Fund Raising	☐ Casting Instruction	☐ Fishing Outings
☐ Selling Ads	☐ Greeting Guests	

Suggestions

We are always open to suggests on how to improve our club. Your suggestions are always welcomed.

What suggests do you have for programs and monthly meetings (Topics and Speakers)?

What suggests do you have for club outings (where to go, what to fish for)?

If you are a renewing member, what could be done differently to better satisfy your fly fishing interests?

Application and Release (You must sign this release in order to become a member)

I, the undersigned, hereby apply for membership or renewal in the First Coast Flyfishers (FCFF) Club of Jacksonville, Florida, Inc. I understand the inherent risk in participating in the activities of FCFF, including fishing trips of one day or longer. I further understand that I am solely responsible for all costs of medical treatment and transportation.

I, release, indemnify, and hold harmless, FCFF, its officers, directors and members against any and all claims for personal injury, disease, death and property damage or loss that may arise out of, or be connected in any way with, any FCFF activity. I assume the risk of undertaking all FCFF activities, including related to travel.

Signature: _____ Date: _____

If this is a youth membership, a parent or guardian must sign. If you are signing for a youth member:

Print your full name: _____

Address: _____

City: _____ Zip Code: _____

Home Phone: _____ Alternative Phone: _____

DECEMBER 2018 TIDES JACKSONVILLE (MAYPORT BAR PILOT DOCK)

DATE		TIME	HEIGHT		DATE		TIME	HEIGHT		DATE		TIME	HEIGHT	
12/1/2018	Sat	3:24 AM	4.83	H	12/15/2018	Sat	2:05 PM	4.09	H	12/23/2018	Sun	9:13 PM	4.65	H
12/1/2018	Sat	9:14 AM	0.4	L	12/15/2018	Sat	8:20 PM	0.6	L	12/24/2018	Mon	2:50 AM	-0.9	L
12/1/2018	Sat	3:45 PM	4.94	H	12/16/2018	Sun	2:39 AM	3.99	H	12/24/2018	Mon	9:40 AM	5.65	H
12/1/2018	Sat	9:43 PM	0.15	L	12/16/2018	Sun	8:40 AM	0.91	L	12/24/2018	Mon	3:37 PM	-0.59	L
12/2/2018	Sun	4:27 AM	5.02	H	12/16/2018	Sun	3:01 PM	4.03	H	12/24/2018	Mon	10:05 PM	4.67	H
12/2/2018	Sun	10:16 AM	0.34	L	12/16/2018	Sun	9:08 PM	0.45	L	12/25/2018	Tue	3:42 AM	-0.81	L
12/2/2018	Sun	4:45 PM	4.88	H	12/17/2018	Mon	3:37 AM	4.16	H	12/25/2018	Tue	10:31 AM	5.55	H
12/2/2018	Sun	10:37 PM	0.05	L	12/17/2018	Mon	9:38 AM	0.78	L	12/25/2018	Tue	4:29 PM	-0.54	L
12/3/2018	Mon	5:24 AM	5.22	H	12/17/2018	Mon	3:58 PM	4.04	H	12/25/2018	Tue	10:59 PM	4.65	H
12/3/2018	Mon	11:14 AM	0.24	L	12/17/2018	Mon	9:56 PM	0.26	L	12/26/2018	Wed	4:38 AM	-0.63	L
12/3/2018	Mon	5:39 PM	4.84	H	12/18/2018	Tue	4:34 AM	4.42	H	12/26/2018	Wed	11:24 AM	5.35	H
12/3/2018	Mon	11:28 PM	-0.04	L	12/18/2018	Tue	10:35 AM	0.58	L	12/26/2018	Wed	5:24 PM	-0.45	L
12/4/2018	Tue	6:17 AM	5.38	H	12/18/2018	Tue	4:54 PM	4.11	H	12/26/2018	Wed	11:55 PM	4.59	H
12/4/2018	Tue	12:08 PM	0.15	L	12/18/2018	Tue	10:45 PM	0.03	L	12/27/2018	Thu	5:39 AM	-0.4	L
12/4/2018	Tue	6:30 PM	4.8	H	12/19/2018	Wed	5:28 AM	4.72	H	12/27/2018	Thu	12:18 PM	5.09	H
12/5/2018	Wed	12:16 AM	-0.1	L	12/19/2018	Wed	11:29 AM	0.33	L	12/27/2018	Thu	6:23 PM	-0.35	L
12/5/2018	Wed	7:05 AM	5.47	H	12/19/2018	Wed	5:47 PM	4.22	H	12/28/2018	Fri	12:54 AM	4.53	H
12/5/2018	Wed	12:58 PM	0.06	L	12/19/2018	Wed	11:34 PM	-0.23	L	12/28/2018	Fri	6:45 AM	-0.18	L
12/5/2018	Wed	7:17 PM	4.75	H	12/20/2018	Thu	6:19 AM	5.03	H	12/28/2018	Fri	1:15 PM	4.79	H
12/6/2018	Thu	1:01 AM	-0.12	L	12/20/2018	Thu	12:21 PM	0.05	L	12/28/2018	Fri	7:23 PM	-0.28	L
12/6/2018	Thu	7:50 AM	5.49	H	12/20/2018	Thu	6:39 PM	4.36	H	12/29/2018	Sat	1:57 AM	4.49	H
12/6/2018	Thu	1:44 PM	0.03	L	12/21/2018	Fri	12:24 AM	-0.49	L	12/29/2018	Sat	7:52 AM	-0.02	L
12/6/2018	Thu	8:02 PM	4.67	H	12/21/2018	Fri	7:09 AM	5.3	H	12/29/2018	Sat	2:16 PM	4.51	H
12/7/2018	Fri	1:44 AM	-0.09	L	12/21/2018	Fri	1:11 PM	-0.22	L	12/29/2018	Sat	8:21 PM	-0.25	L
12/7/2018	Fri	8:33 AM	5.43	H	12/21/2018	Fri	7:30 PM	4.49	H	12/30/2018	Sun	3:02 AM	4.51	H
12/7/2018	Fri	2:28 PM	0.04	L	12/22/2018	Sat	1:12 AM	-0.71	L	12/30/2018	Sun	8:56 AM	0.07	L
12/7/2018	Fri	8:44 PM	4.56	H	12/22/2018	Sat	7:58 AM	5.52	H	12/30/2018	Sun	3:19 PM	4.3	H
12/8/2018	Sat	2:24 AM	-0.01	L	12/22/2018	Sat	2:00 PM	-0.44	L	12/30/2018	Sun	9:17 PM	-0.23	L
12/8/2018	Sat	9:13 AM	5.31	H	12/22/2018	Sat	8:21 PM	4.59	H	12/31/2018	Mon	4:06 AM	4.58	H
12/8/2018	Sat	3:09 PM	0.12	L	12/23/2018	Sun	2:01 AM	-0.86	L	12/31/2018	Mon	9:58 AM	0.09	L
12/8/2018	Sat	9:24 PM	4.44	H	12/23/2018	Sun	8:49 AM	5.64	H	12/31/2018	Mon	4:20 PM	4.16	H
12/9/2018	Sun	3:02 AM	0.12	L	12/23/2018	Sun	2:48 PM	-0.56	L	12/31/2018	Mon	10:11 PM	-0.23	L
12/9/2018	Sun	9:52 AM	5.15	H										
12/9/2018	Sun	3:50 PM	0.25	L										
12/9/2018	Sun	10:04 PM	4.3	H										
12/10/2018	Mon	3:40 AM	0.29	L										
12/10/2018	Mon	10:30 AM	4.95	H										
12/10/2018	Mon	4:31 PM	0.4	L										
12/10/2018	Mon	10:43 PM	4.17	H										
12/11/2018	Tue	4:18 AM	0.47	L										
12/11/2018	Tue	11:08 AM	4.75	H										
12/11/2018	Tue	5:13 PM	0.55	L										
12/11/2018	Tue	11:23 PM	4.05	H										
12/12/2018	Wed	4:59 AM	0.65	L										
12/12/2018	Wed	11:47 AM	4.55	H										
12/12/2018	Wed	5:58 PM	0.66	L										
12/13/2018	Thu	12:06 AM	3.95	H										
12/13/2018	Thu	5:47 AM	0.81	L										
12/13/2018	Thu	12:29 PM	4.36	H										
12/13/2018	Thu	6:44 PM	0.71	L										
12/14/2018	Fri	12:52 AM	3.9	H										
12/14/2018	Fri	6:41 AM	0.92	L										
12/14/2018	Fri	1:15 PM	4.21	H										
12/14/2018	Fri	7:32 PM	0.69	L										
12/15/2018	Sat	1:43 AM	3.91	H										
12/15/2018	Sat	7:40 AM	0.95	L										