

THE ROLLCAST

The Newsletter of Cape Cod Trout Unlimited Chapter 460

February 2019

Barometric Pressure: Is It Important for Marine Fishing

February Meeting Speaker: Ryan Colins

Childs River Update

Upcoming Events

On the WEB: www.capecodtu.com

Visit us on facebook: <https://www.facebook.com/capecodTU>

President's Message - February 2019

January's Chapter Meeting was attended by nearly 40 attendees who listened with interest to our fantastic speaker, Joe Swaluk. Joe brought along a variety of his exquisite models of Brook Trout, Brown Trout, Dolly Varden, Arctic Char and Atlantic Salmon as visual aids to his informative talk about how to fish these species. Joe is a longtime CCTU member and we thank him very much for his presentation.

Fly tying Wednesdays are off to a good start. Stop by Liberty Hall on select Wednesday nights: January 30th, February (20th, 27th), and March (20th, 27th) to tie with fellow CCTU members. If you are new to fly tying, there are hundreds of years of experience in the room and plenty of people to help you get started. If you are experienced, come down for some camaraderie and fish stories.

Progress is being made on the Childs River Restoration, as you will read in this edition of the CCTU Rollcast. So great to see this project move forward with support from the Embrace-A-Stream Grant from TU National and many volunteer hours from Tim Lynch, other CCTU members and our friends at the Falmouth Rod and Gun club.

Looking forward to seeing you at the other fun and important CCTU events we have coming up in the next few months:

February 13 - Chapter Meeting featuring Ryan Collins from My Fishing Cape Cod

February 17 - Quashnet Workday @ Quashnet River, Martin Road Gate

March 17 - Back to the Quashnet workday @ Quashnet River, Martin Road Gate

April 7 - CCTU Annual Fundraising Banquet @ Dan'l Webster Inn, Sandwich

May 3-5 - CCTU Fly Fishing School @ Oak Crest Lodge, Peters Pond, Sandwich

Looking forward to seeing you soon!

Roberta (Robbie) Mazzoli

Events

Cape Cod Trout Unlimited (CCTU) Board Meeting:

February 6, 6pm, Liberty Hall. Liberty Hall, Marstons Mills (2150 Main St, Marstons Mills, MA 02648)

CCTU monthly members meeting (bring a friend):

February 13, 6 pm, Liberty Hall. Our February speaker will be Ryan Collins. Join Ryan of "My Fishing Cape Cod" as he takes us month-by-month through a season of fishing on the Cape. Learn what species will be available from shore and boat. Discover top locations and techniques for striped bass, bluefin tuna and more. Complete with high resolution photos and videos from Ryan's own Cape Cod fishing trips. Ryan Collins grew up on the beach and has been fishing Cape Cod since kindergarten. He is the creator of My Fishing Cape Cod, an online membership site and community with resources and people to help make your time fishing on Cape Cod more productive and more fun. Ryan is also host of My Fishing Cape Cod TV, which airs Saturday and Sunday mornings on NBC Sports BOSTON.

Fly tying (bring a friend):

January 30, 6pm - 8pm, Liberty Hall

February 20 and 27, 6pm - 8pm, Liberty Hall

If you have never tied a fly before or have been tying for many years come out and join in. There is no cost for this and equipment and materials are available if needed.

Quashnet River Workday:

February 17, 9am-12pm

We'll be meeting at the Martin Road gate at 9:00. Come on down and join the gang as we continue to work to improve the habitat for wild native brook trout in this river. The work to preserve wild fish is very important here on Cape Cod! Please join us.

Looking Ahead:

Bear's Den Fly Fishing Expo: Feb 16, 11-6, www.bearsden.com

2019 CCTU Spring Fundraising Banquet: Details below.

2019 CCTU Fly Fishing School: Details below



TROUT UNLIMITED

CONSERVING, PROTECTING AND RESTORING NORTH AMERICA'S COLDWATER FISHERIES AND THEIR WATERSHEDS



Tickets Now on Sale!

CCTU 2019 Fundraising Banquet

Daniel Webster Inn & Spa, Sandwich, MA

Sunday April 7, 2019 12:30-3:30PM

Please join us on Sunday, April 7th for CCTU's Annual Fundraising Banquet. This year, the banquet will be held at the historic Dan'l Webster Inn in Sandwich and feature a luncheon buffet with multiple delicious entree options, as well as plated salad and dessert courses. A cash bar will be available. Bring some friends and spend a fun afternoon supporting cold-water conservation.

- **Buy Your Tickets Now- just \$35 each.**
- **Online-** Go to our www.Capecodtu.org, and follow the links under Fundraisers
- **Checks-** Payable to Cape Cod Trout Unlimited, checks can be dropped off at a Chapter event or mailed with a list of attendee names to: Charles Orr, c/o CCTU, 23 Harriette Road, East Falmouth, MA 02536

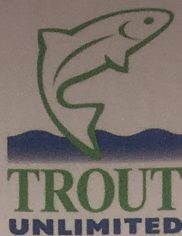
Please Donate

As always, there will be lots of silent and live auction items, bucket raffles and special item raffles to help us raise money to continue our conservation efforts right here on Cape Cod. We are accepting your critical donations. Bring them to a chapter meeting or contact us (below). Thank you in advance!

- Fishing equipment (Rods, reels, flies)- New or excellent condition
- Guided fishing trips
- Use of a vacation home/camp
- Merchandise from local shops- esp. non fishing items
- Gift baskets (food, spirits, sweets) and more!
- Cash (always welcome)

For More Information

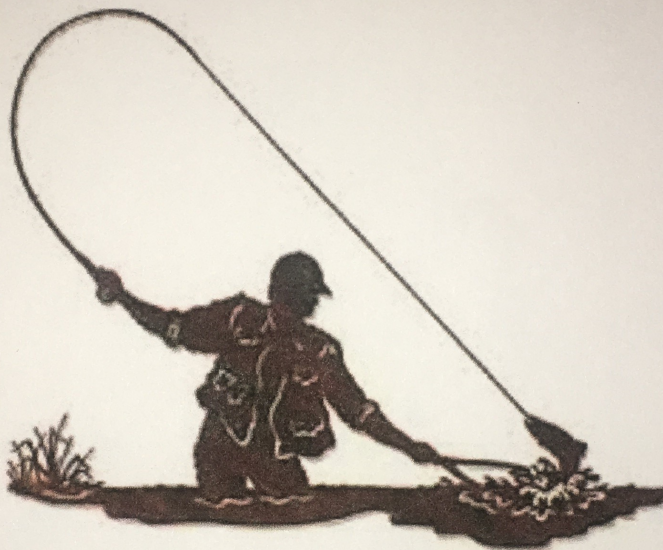
For questions about the banquet or to donate an item for the auctions and raffles, please contact Banquet Chairman, Mike Howard, at howard533@gmail.com or 412-418-7636.



Fly Fishing School

3, 4, 5 May 2019 Weekend

***Oak Crest Lodge, Peters Pond
Sandwich, Cape Cod, Massachusetts***



Cape Cod Trout Unlimited (CCTU)

Additional Info and application at www.capecodtu.org

- *Experienced, enthusiastic instructors**
- *Hands-On Learning with lines, knots, fly tying & fly casting**
- *Techniques for fly fishing streams, ponds, and saltwater**
- *Trout stream entomology, conservation, and restoration**

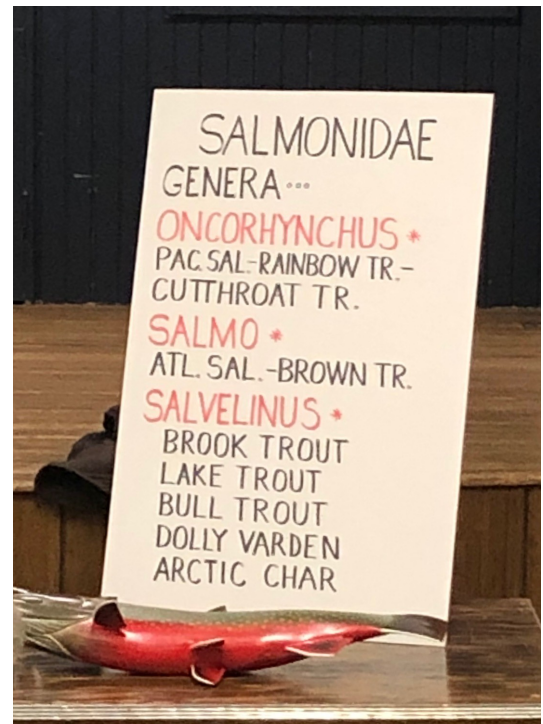
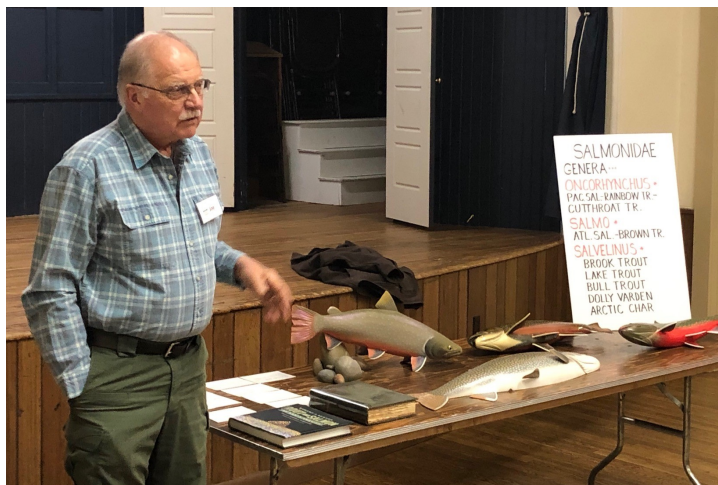
All instructions, food, & lodging for one very reasonable fee

For information contact:

Fred Monahan
Cell 203-213-9419
Email: cctu.ffs@gmail.com

CCTU January Meeting

January's monthly meeting included: new officers and board members, Joe Swaluk's presentation, raffle.



January Fly Tying (Photos from Tim Lynch):



SIGNIFICANT PROGRESS IN 2018 ON CHILDS RIVER RESTORTION PROJECT

by Peter Schilling and Tim Lynch

Significant progress has been made on the Childs River Restoration Project (CRRP) in 2018. The project is being spearheaded by the Falmouth Rod and Gun Club and supported by the Cape Cod Chapter. The project goals are to reestablish a cold water fishery for brook trout and to restore the abandoned cranberry bogs back to wetlands for waterfowl and wildlife.

On December 3, 2018, the Falmouth Board of Selectmen approved a conservation restriction and its transfer for the Farley Bog, one of two cranberry bogs that will be part of the nearly \$2 million restoration. The project will also involve work on the abandoned Garner bog, which is upriver, and owned by the town of Mashpee. Mashpee has agreed to a 30-year lease of the 24.5 acre bog to the Rod and Gun Club for the restoration project.

Overall, approximately 1.5 miles of the river will be impacted, up to its headwaters above the Garner bog. A dam in the lower section of that stretch right below Carriage Shop Road will be removed and a culvert running under the road replaced. The channel running through the two bogs will be moved to improve sinuosity and provide cover and shade for the river.

In April 2018, the Town of Falmouth approved \$150,000 in Community Preservation Act Funds. A similar request for \$240,510 to the town of Mashpee's Community Preservation Act Fund is still pending, according to the Falmouth Enterprise. The conservation commissions of both towns have enthusiastically endorsed the project.

On December 6, 2018, the Governor designated the Childs River restoration as a Priority Project through the Department of Fish and Game's Division of Ecological Restoration.

This makes the project eligible for a variety of state assistance, including grants, permitting and technical assistance, the Enterprise reports.

In October 2018, The Cape Cod Chapter of Trout Unlimited was awarded an Embrace-A-Stream Grant from TU National in the amount of nearly \$4,000 for monitors to be placed in the Childs, allowing for increased data collection. Another more than \$5,000 was raised by our Chapter after the initial grant, through an innovative supplemental fund-raising program developed by TU National.

According to Tim Lynch, current Past-President of the Cape Cod Chapter and President of the Falmouth Rod and Gun Club, the monitors have already been installed through the river. He states the next phase of the project is securing additional funding, permitting, and progressing from 60% design phase to 100% design. Inter-Fluve is the Club's engineer for the restoration.

On January 16, 2019, a delegation from Falmouth Rod and Gun Club, including Treasurer Gary Anderson, who is the club's primary point person for the restoration, Tim Lynch, others from the CRRP Team, Falmouth Selectman Doug Brown, Mashpee Selectmen Andrew Gottlieb, Representatives David Vieira and Dylan Fernandes and Senator Viriato deMacedo, met at the State House with the Secretary of Energy and Environmental Affairs Matthew Beaton. The purpose of the meeting was to garner additional support for the Childs River Restoration Project, particularly the \$1,000,000 line item of funding in this year's budget for the project, which has yet to be released. Target completion date for the project is fall of 2020.

In a November 2018 presentation to the Chapter, Fish and Wildlife Biologist Steve Hurley provided results from the fall survey of fish populations on the sea run brook trout streams on the Cape and Southeastern Massachusetts. The results for the Childs showed a stable population of fish, with a healthy range of sizes from young of the year to adult fish. Restoration efforts on the Childs have been going on since 2006-2007, when fish from the Mashpee were transplanted into the Childs. This is only in the lower part of the river, below the dam, and not specifically part of the Rod and Gun Club's current efforts.

For more detailed information about the current state of the restoration, or opportunities for volunteer work, contact Tim Lynch (tinylynch@comcast.net) or (cctuflyfish@comcast.net)

The Childs River Restoration Project team

had a great day at the MA State House yesterday with Rep. David Vieira. We made a presentation to Energy & Environmental Affairs Secretary Matthew Beaton for \$1.1 million to complete our conservation project. The team felt there was a favorable reaction from the Secretary. Also in attendance were State Rep. Dylan Fernandes, State Senator Vinny deMacedo and their aides. Falmouth Selectman Doug Brown and Mashpee Selectman and Executive Director of APCC Andrew Gottlieb also were in attendance to support the project. From left to right in the picture: Tim Lynch, Selectman Doug Brown, State Rep. David Vieira, Gary Anderson, Ken Bates, Dennis Martin, and AD Colburn.



News from the Atlantic Salmon Journal:

There is now a video on You Tube of Lee Wulff flying exploring wild salmon rivers in northern Newfoundland decades ago. Wulff was a highly skilled pilot, in addition to an angler and filmmaker. He was hired by the Newfoundland Provincial government to explore these streams and assess their potential for sports fishing. About 20 minutes long.

Best way to get to the video is to google You Tube, then enter videos of Lee Wulff Flying. There are several videos there done by Wulff, but the one referenced by ASF is entitled Wings for an Angler and is just over 20 minutes long.

Incredible pictures of him flying through northern Newfoundland in the late forties, catching five and six pound brookies and a thirty pound Atlantic Salmon.

Submitted by Peter Shilling

Barometric Pressure - Is it Important for Marine Fishing?

Most experienced fishermen know that there are several things about the marine environment that can influence their fishing success. Tide and tidal currents, water temperature, time of day, oxygen content of the water, and presence of bait are ones that immediately come to mind. Some, however, would include changing barometric pressure in this group.

As I hope to show a change in barometric pressure is irrelevant for most marine fish. Nevertheless the internet and many fishing magazines often have articles about how you can't miss catching fish if you fish when the barometric pressure is dropping. Some articles even suggest that fish, amazingly, can anticipate changes in barometric pressure before it even occurs. It certainly would make fishing easier if this were true- but sorry it isn't. The simple fact is that most saltwater fish will not even be aware of any changes in barometric pressure nor will any change have any effect on their behavior. But don't get upset yet, there is still may be some value in watching barometric pressure.

Let me explain, but first some caveats. I am talking only about the marine environment and saltwater fish, and am not including fish that live in the top one or two feet of the ocean.

It is clear that major changes in barometric pressure often are accompanied by changes in wind speed and direction, air temperature, cloud cover, and possibly even rainfall. It is also clear that these changes could influence fishing- but it is not the barometric pressure that is influencing fish or fishing. To make my point I need to get a little technical.

Pressure is usually expressed as units of atmosphere regardless of whether it is measured in the ocean or in the atmosphere. On land and over the ocean pressure is usually called barometric pressure. This barometric pressure (measured with a barometer and reported as inches of barometric pressure) is due to the weight of all the air in the atmosphere at sea level. In other words, the weight of about 160 miles or so of air in the atmosphere over the ocean. This weight, which is about 14.7 pounds per square inch (psi) is defined as "one atmosphere." A normal value for barometric pressure at sea level is about 30.00 inches (one atmosphere). A typical range in barometric pressure would be from 30.70 inches with a strong high-pressure system to a low of about 28.00 inches with a passing hurricane. The difference between these two extremes is 2.7 inches of pressure or about 0.09 atmospheres (2.7/30). A more typical range between highs and lows would be about 1.7 inches or about 0.06 atmospheres.

The rate of change in barometric pressure is important since it indicates how fast or slow the changing weather is approaching. A slow-moving system would have a change in barometric pressure of about 0.02 to 0.03 inches per hour, whereas a fast-moving system would have a change of about 0.05 to 0.06 inches per hour. Basically barometric pressure does not change very fast- about 0.001 to 0.002 atmospheres per hour depending on how fast the storm is moving.

In the ocean the pressure is called hydrostatic pressure and is the result of the weight of the overlying water plus the weight of the atmosphere. An important point is that water is about 800 times denser than air and because of this it only takes 32.8 feet of water to create a pressure of 14.7 psi or one atmosphere. What this means is that 32.8 feet of water is equivalent in pressure to the entire barometric pressure created by the entire overlying atmosphere. At 32.8 feet depth the pressure is actually 2 atmospheres- one for the barometric pressure, plus one for the hydrostatic pressure. If you go down another 32.8 feet (or now 65.6 feet) you will have 3 atmospheres of pressure and so on.

Barometric Pressure - Is it Important for Marine Fishing? (CONTINUED)

The next point is how pressure affects fish. This can be a complex question, but most fish maintain an internal pressure similar to that of the surrounding water. Fish that have swim bladders, which contains gas, will adjust the volume of gas within their bladders to balance the external hydrostatic pressure when they make large changes in their depth. Most fish, however, can make small up or down movements (experiencing a decrease or increase in their surrounding pressure) without any problem. They can also make large changes in depth if they have adequate time to adjust.

Let me mention three normal things that occur in the ocean which can cause a fairly quick and large change in the pressure to a fish. First if the fish were to simply move up or down (to take your lure for example) just 3 feet it would experience a pressure change larger than that caused by the passing of a major hurricane or storm and this change would occur in seconds rather than a day or two that the storm would take. (To be precise a movement of 3.28 feet either up or down will decrease or increase the pressure on a fish by $1/10$ (0.10) of an atmosphere. A value that exceeds any reasonable change in barometric pressure).

A change in the tide of just 3 feet over a typical 6 hour or so tidal cycle would also produce a pressure change similar to that of a major storm or hurricane. A third thing are waves- a 3 foot high wave (not an untypical average ocean wave height) with a period of a few seconds (say 6 seconds) would produce a change in pressure on our fish essentially the same as a major storm or hurricane every 6 seconds or so or every time the wave passes over the fish. Hopefully you now see that any barometric pressure change is essentially unnoticeable and uneventful for a fish living in the ocean compared to the normal water movements caused by tides, waves, or just typical fish movements.

The important point is that there are normal changes in hydrostatic pressure in the ocean that fish can easily tolerate that are far larger and occur much quicker than any barometric pressure change. Remember again the range in barometric pressure change is relatively small and very slow compared to normal hydrostatic pressure changes in the ocean. In other words barometric changes are simply trivial to fish compared to the normal pressure changes that occur below the ocean's surface. Also consider that if a fish preferred a lower pressure it could simply move up a few inches achieve it.

But I should note to those who fish in shallow water, such as on tidal flats, that barometric pressure changes which may occur before, during, or after the passage of a high- or low-pressure system can cause changes to the environment that may affect your fishing success. I believe that these environmental changes, such as in temperature, changes in wind direction or speed, water turbidity, cloud cover, or even an increase in water oxygen content due to increased wave action could turn on (or off) favorable fishing conditions. I know that there are many experienced fishermen who have had memorable fishing experiences before or after a storm- but these experiences (good or bad) were due to other things than changing barometric conditions. However, watching for a change in barometric pressure could be a good clue to the coming of other changes.

Finally fish are wonderful creatures but they cannot predict future changes in barometric pressure, nor can they read solunar tables, but that's another story.

David Ross, Ph.D. Scientist Emeritus, Woods Hole Oceanographic Institution, Woods Hole Ma.

Photos from Ryan Collins (our February meeting speaker):



2019 CCTU Pond Challenge

	Date	Pond	# of Trout	Flies Used	TU Fishing Partner
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Rules:

1. **Catch a trout in 7 or more Cape Cod Ponds** and you earn one chance for a Gift Certificate.
2. Catch a trout in seven or more Cape Cod Ponds **while fishing with a TU buddy** and earn a 2nd chance.
3. Challenge ends 31 Dec 2019; Pat Grenier is POC and will collect all entries.
4. Two names will be drawn out of the hat for the Bear's Den gift certificates.
5. Winner/Award Ceremony will be at January 2020 CCTU Chapter Meeting. Happy fishing!

Cape Cod Trout Unlimited

2019 Officers and Board Members

President: Roberta Mazzoli

Vice President: Alan Alai

Treasurer: Charles Orr

Secretary: Michael Howard

Board Member: Fred Monahan

Board Member: Tom Planert

Past President: Tim Lynch

Rollcast editor: Ron Reif

Please consider becoming a contributor to the CCTU Rollcast. You can submit photos, stories, articles, and updates that may be of interest to the Rollcast readers. Please submit the stories, articles, and updates as final versions that have been proof-read and are in one of the following formats: MS Word or Google Docs.

Please submit your materials to Ron Reif: ccturollcast5@gmail.com

