Scuttlebutt

Sunday December 4th, 2022
YCCC General Meeting, 1:00 – 4:00PM
Hampton Inn, Enfield, CT

CAPTAIN'S LOG

Hi All,

Fall yard cleanup is "done and done" so now it's antenna season. First order of business was to set up an Inverted-L with 6 130' radials a few days before Thanksgiving, added another set of radials (about 1000') the day before Thanksgiving. Finally, I was able to sneak out for a couple of hours Turkey day to deploy a shielded receive loop while the family was catching their after-dinner nap. This was good for 50Q's, 13 Zones and 24 Countries during the **CQWW DX CW** test. Another 1000' of short radials is about all I can reasonably fit on my lot. I hope to deploy before the ARRL 160M test.
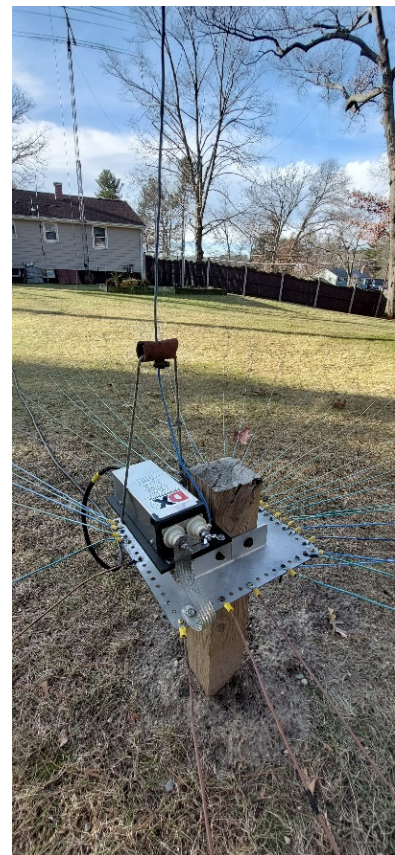
Judging by the number of posts on the club reflector it seems like we had a better than (recent) average turnout for the **CQWW DXCW** portion. I hope you were able to get on for the contest.

Thanks to Charlie – N1RR we have a good snapshot of the club participation in **CQWW DX SSB**. The Club has come up significantly short compared to our traditional competitors. It also appears Club member participation was down about 25% compared to 2021.

The contest dates didn't leave sufficient time between the newsletter article submission deadline and contest submission deadlines, details will be provided in a future issue.

WO1N's Temporary Inverted L

On a brighter note, we somehow managed to capture the CQWW WPX Club competition this past year. I recall looking at the results after the SSB portion and saw we were behind PVRC. The PVRC guys have made the WPX Club competition a priority, and had a considerable lead after the SSB portion, so I didn't think we had a chance. I'll take a closer look once I get through the current contesting overload.

Yankee Clipper Contest Club	
President	Ken Caruso, WO1N President@YCCC.org
Vice President 401-742-7240	Charles Morrison, N1RR VicePresident@YCCC.org
Activities Manager	Gerry Kersus, W1GD Activities@yccc.org
Secretary	Brian Szewczyk, NJ1F Secretary@YCCC.org
Treasurer	Chet Slabinski, N8RA Treasurer@YCCC.org
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W1 QSL Bureau Co-Managers	Eric Williams, KV1J Dennis Egan, W1UE W1QSL@YCCC.ORG
New Members (603) 231-8965	Mark Pride, K1RX Members@yccc.org
Media Manager	Tom LeClerc, W1TJL Content@yccc.org

NEXT MEETING
DEC 4, 2022 1PM to 4PM

Hampton Inn Springfield South Enfield

20 Phoenix Ave (off RT190) , Enfield, CT 06082

Phone: (860) 741-3111

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Area Managers

ME	Mike Russo, K1EU	(207) 883-9524	k1eu@maine.rr.com
ENH/NEMA	Ken Caruso, WO1N	-------------------	wo1n@arrl.net
WNH/SVT	Craig Clark, K1QX	-------------------	k1qx@arrl.net
SE MA (508) [co-mgr]	Charlie Morrison, N1RR	(401) 742-7240	charles.morrison.n1rr@gmail.com
SE MA (508) [co-mgr]	Dave Neil, W2DAN	------------------	-------------------
Boston (617/781)	Joe Fitzgerald, KM1P	(617) 325-6767	jfitzgerald@alum.wpi.edu
WMA (413)	----------**OPEN**----------	------------------	-------------------
CT (860)	----------**OPEN**----------	------------------	-------------------
CT (203)	Mike Loukides, W1JQ	(203) 458-2545	MikeL@oreilly.com
RI (401)	Charlie Morrison, N1RR	(401) 742-7240	n1rr@n1rr.com
NNY	John Corini, KE1IH	-------------------	John.Corini@gmail.com
NYC/LI (718)	Tom Carrubba, KA2D	(631) 422-9594	ka2d@arrl.net
SNY/NJ/PA (914)	Hank Kiernan, KF2O	(914) 235-4940	hankkier@aol.com
NVT (802)	Jason Garneau, K1LOL	-------------------	-------------------
QUEBEC	Guy Lemieux, VE2BWL	-------------------	guy@guylemieux.com
CAPE & ISLANDS	----------**OPEN**----------	------------------	-------------------

Articles in the Scuttlebutt (except for those separately copyrighted) may be reprinted, provided proper credit is given.

Directions to Hampton Inn Springfield South Enfield

Hampton Inn Springfield South is located at 20 Phoenix Ave, Enfield, CT..

- From the North, East and West, take the Massachusetts Turnpike (Interstate 90) to Exit 45, take I-91 South to Exit 47 (Rt 190 East, Hazard Ave). Turn right onto Phoenix Ave.

- From the South, take Interstate 91, Exit 47 (Rt 190 East, Hazard Ave) Turn right onto Phoenix Ave..

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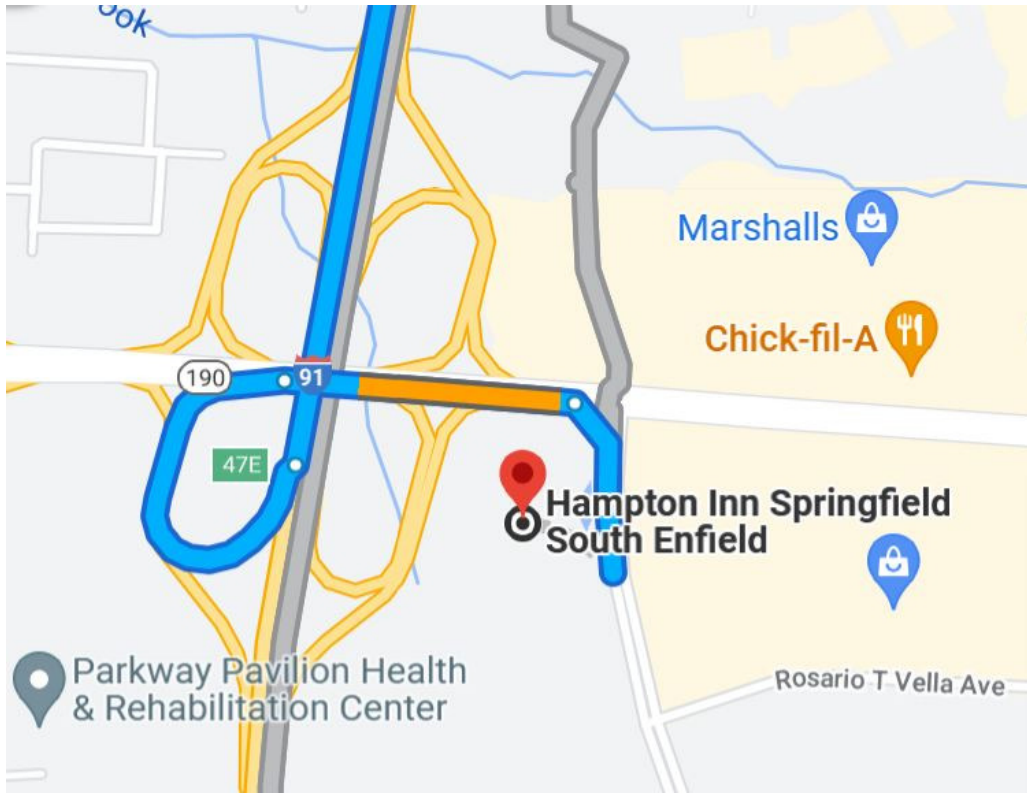
UPCOMING FUTURE MEETINGS

FEBRUARY 2023 = A VIRTUAL / ZOOM MEETING is planned.

APRIL 2, 2023 1PM to 4PM
Hampton Inn Springfield South Enfield
20 Phoenix Ave (RT190) , Enfield, CT 06082
Phone: (860) 741-3111

YCCC In-Person Meeting
Sunday, Dec. 4th, 2022
Hampton Inn, Enfield CT.

The next meeting will be held Sunday, Dec. 4th at the Hampton Inn, Enfield, CT. We will begin to gather at noon and the meeting will kick-off at 1:00 PM.

The meeting will feature two talks in addition to the usual club business. Our own David Robbins, K1TTT will present on the steps necessary to get his station prepped for a Multi-Multi operation. Jeff Stuparits, W4DD will present a talk via Zoom on Locating Power Line Noise and other RFI.

David is a YCCC Hall of Fame member, inducted in 2013. In 1984, David moved to Peru, MA. He was very interested in contesting and became very active in the Yankee Clipper Contest Club. The Amateur Radio contesting world has forever been changed by the generosity and ingenuity exemplified by David. For those of us who know Dave well, we understand he does not like to do things small. In fact, his first tower was 150 feet of Rohn 45. Dave became infected with the contest bug and quickly set out to build his superstation. That work continues even to this day.

The focus of many multi-multi station owners is building the best possible station and crew. The paradox for many inexperienced operators is they cannot get a seat due to lack of experience. Through Dave's generosity and open-door policy, countless numbers of operators have been able to hone their skills and to learn techniques from experienced operators while operating a top-notch station. Many of these ops have gone on to become great single-ops or members of other multi-op teams.

Jeff Stuparits, W4DD became interested in RFI about ten years ago when RFI affected his ability to enjoy ham radio for contesting, weak signal work, and rag chewing. Jeff is retired from a large cellular company where he worked in the Advanced Technology Group on spectrum issues including cellular spectrum optimization and FCC spectrum auctions. In addition to his 25 years in cellular, earlier in his career he worked in Telephone Operations and Air Defense Communications. Jeff's background includes degrees in EE, and a MBA. He is a licensed P.E. Additional information about Jeff can be found on his QRZ web page or page 13 of the August 2022 QST, Member Spotlight.

Note the meeting will not be carried by Zoom to encourage members to make the trip. We will attempt to record talks where it is technologically feasible with good quality.

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Open Positions in the YCCC
Ken – WO1N

Vice President

Charlie – N1RR has served as the Club Vice-President and/or President for 8 consecutive years now and has been a member since 1988. Charlie has formally informed the Board that he will be stepping down as VP as of the Dec 4th, 2022 meeting.

The Vice President roles and responsibilities, as outlined in the Club constitution, are being there to assume the duties of the President in the absence of the latter. The Vice President will perform other duties as agreed up with the President. In practice this means keeping yours truly on the straight and narrow path, talking yours truly of the proverbial cliff on a regular basis and organizing the meeting venues for live meetings. Additionally, the Vice President is a board member of the W1QSL Bureau.

Charlie's contributions include regularly organizing after contest get togethers, team building, station building and tackling the tougher Club issues like the misapplication of our scholarship funds a few years back. Charlie indicates he will continue to be a major contributor. The desire here is to step back from the Club day-to-day operations.

Area Manager Openings

Recently we have had two Area Manager resignations and we have one position that has been open for a few years now.

Western Mass Area Manager (413) W1TO, Tom has submitted his resignation. It could be argued that Tom has single handedly signed up more members than anyone as he would always be present at K1TTT's prior to the start of the majors and coordinate the onboarding of new operators to the K1TTT station thus insuring more / all of the points generated could be counted towards the Club totals. Thank you, Tom!
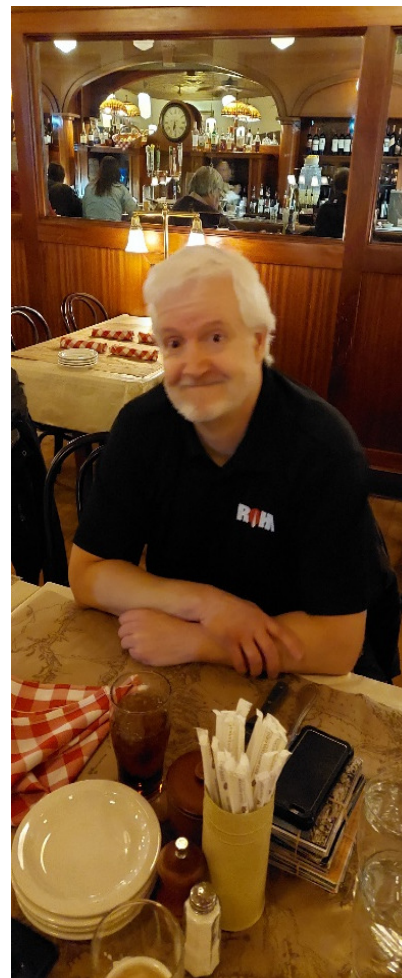
N1RR Happy with the Ted's turnout

Eastern CT Area Manager (860) N1IXF, Rich has also submitted his resignation. While I don't know Rich as well as I know Tom, I note that he works behind the scenes organizing plaques for the CQWPX RTTY contest. Eastern CT is a bit of a misnomer, as the area is defined to cover the state in its entirety other than the Southwestern corner. This is one of the larger land areas as defined by the Club and our records show some 31 active members.

Cape and Islands Area Manager

This position has remained open since its definition back a few years ago.

Area managers are called upon to organize local area meetings, either live or Zoom, define resources within the area that can be called upon should club members put out a call for assistance with antenna projects. Additionally, Area Managers do some recruiting at area get togethers (hamfests, flea markets etc.). Finally they are asked to report back on a regular basis to the Club as to activities within the area.

We are encouraging Area Managers to be a bit more active. We think it is a good approach to developing a sense of belonging to the Club other than the few live meetings we have each year.

Score Keeper

This position has evolved over the years and can either be handled by an individual on a per contest basis or collectively. A lot of this role is just to be a cheer leader for the Club to insure everyone gets their scores in on time. Responsibilities also include providing regular updates about the provisional Club score, helping members with the score submittal process, exchanging status with the FRC and PVRC Score Keepers and resolving discrepancies with Club membership issues. Access to and proficiency with spreadsheets, data mining, slide preparation and scripting is a plus. Some contest organizers, notably the teams that run CQ sponsored contests, have really made this role considerably easier by providing access to raw scores almost immediately after the submittal date closes. That combined with improved usage of the 3830Scores site makes the Score Keeper role almost fun.

If you think you can fulfill any of these roles, please drop me a note at President@yccc.org

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Tower Climbing & Antenna Installation Company Reviews

Here's a list of ham tower companies with reviews. https://www.eham.net/reviews/view-category?id

Just the thing if you don't know a climber or if your climber is booked solid. (Thanks to K7LXC)

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Advanced Antenna Modeling

For those of you who want to learn (or improve) your antenna modeling skills, Amazon Kindle Unlimited ($9.95/mo) offers a pretty good book on the subject:

Advanced Antenna Modeling

https://www.amazon.com/dp/B07XCWSNBX/ref=cm_sw_r_cp_api_6MZNVD1HNMJTDKN0G4PQ-

(Thanks to N2WQ)

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Albany Area Local Meeting

On Thursday November 17th a capital area (Albany NY.) local YCCC meeting was held at Ravenswood Pub in Clifton Park Ny. The attendees were:

John - KE1IH   Saul - K2XA   NJ1F - Brian   WC2L - Will   N1JP - John

There was no set agenda or topic, there was a general discussion about how good propagation was during the recent CQWW contest. Of course everyone was hoping for continued good propagation for CQWW CW and ARRL phone contests. KE1IH asked about strategies for this past weekend's November Sweepstakes and the consensus was to start on 10 or 15 meters to get western US and Canadian sections early in the contest before heading to the lower bands. Saul, K2XA talked about how well his new JK meg 40 meter beam was working and Will, WC2L talked about trying to get some wire antennas up for the low bands. No new members were inducted and no dues were collected.

73 -John, KE1IH (Capital area YCCC local area director)

World Wide Radio Operators Foundation (WWROF) Announces New Scholarship Program

Cleveland, OH – November 16, 2022 – The World Wide Radio Operators Foundation (WWROF) is pleased to announce a new scholarship program.

The WWROF will award up to two scholarships of $2500 each to amateurs who demonstrate active on-the-air operation, including entering contests or achieving awards such as DXCC or WAS. There are no restrictions on applicant nationality, place of residence, location of institution, or intended field of study. Preference will be given to applicants 25 years of age or younger.

The WWROF scholarships will be administered by the ARRLFoundation. Online applications are now being accepted for the 2023 awards.The deadline is Wednesday, January 4, 2023, at 12:00 PM (noon) EST (1700 UTC).

WWROF Chairman Tim Duffy, K3LR, commented, "We have received several donations earmarked for Youth programs. The WWROF created these scholarships to enable active young operators to continue their studies."

For information on applying for these scholarships, see

https://www.arrl.org/scholarship-descriptions

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Dr. James L. Lawson Memorial Scholarship

In addition to the WWROF scholarship just announced, there is another scholarship that should be of interest to young YCCCers. It is this one...for those of you who may not recognize the name, Jim Lawson was W2PV, who built a multi-multi station that was outstanding in every way and who wrote The Book on Yagi antenna design.

The Dr. James L. Lawson Memorial Scholarship

- **Award Amount:** $1,000
- **Number of Awards:** 1 per year
- **License Requirement:** General Class or higher
- **Region:** Resident of New England states (ME, NH, VT, CT, RI, MA) and NY
- **Field of Study**: Bachelor's degree or higher in electronics, communications, or related fields
- **Institution:** Any in New England or NY

I have been informed that there were NO qualified applicants for this scholarship in 2022 and it was not awarded. Hopefully that won't happen again this year!

(Thanks to Doug Grant, K1DG)

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(Captain's Log, continued from page 1)

Tony, K1KP posited last spring if we could add 30 new members we could reclaim the top spots in the **CQWW DX**Club competition. Hope runs eternal, we have added 29 new members since January of this year. That is more than 10% of the active club membership.

For the new members, be sure to check out the article on submitting your logs and scores published in the ScuttleButt Issue #262 (December 2021) found on the Club website. Hint, much of the advice revolves around using 3830Scores.com as the foundation of the Club's record keeping.

It's that time of year again, dues are up! Brian, NJ1F has been keeping the website roster up-to-date. If you see your dues date as 12/31/2022, you are up for renewal. Those of you that haven't paid your dues since 12/31/2017 will be removed from the on-line roster. We will try some direct mail messages to shake some of you out of the trees. Dues are $15/year and are payable via PayPal. You only need to pay for the current year to get active again. There is no need to pay for past years.

Our Treasurer, Chet, N8RA has completed the necessary paperwork and submittals to make our club a true 501.C3 organization in the eyes of the Federal Government. We should know the final ruling in a few weeks. This was driven by PayPal asking for our EIN, which we did not have. A separate set of paperwork was necessary to obtain that. Then, in order to avoid paying taxes on the Club Treasury, we need the 501.C3 status. Does that mean your dues will be deductible for Federal Income Tax purposes? Ask your tax accountant to know for sure. Thank you, Chet!

I hope to see you at the in-person meeting on Sunday, Dec. 4th. See more detail inside.

Happy Holidays All and 73,

Ken – WO1N

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Doreen Bogdan-Martin, KD2JTX
Elected Next ITU Secretary General

The International Telecommunication Union (ITU), the United Nations specialized agency for information and communication technologies, has announced the election of Doreen Bogdan-Martin of the United States of America as the next ITU Secretary-General. Bogdan-Martin will assume office on January 1, 2023. She is a radio amateur and holds the call sign KD2JTX.

The election took place during ITU's Plenipotentiary Conference (PP-22) in Bucharest, Romania, on Thursday, September 29, 2022. Bogdan-Martin won the position with 139 votes, out of 172 votes cast by representatives of Member States.

You can read the ITU press release here: https://www.itu.int/en/mediacentre/Pages/PR-2022-09-29-ITU-SG-elected-Doreen-Bogdan-Martin.aspx

"This is an exciting development for ITU," said International Amateur Radio Union (IARU) President Tim Ellam, VE6SH. "...she will be the first female SG [Secretary General] and only the third to hold an amateur license. Doreen has an exciting agenda for ITU."

The US Department of State has published a statement from Bogdan-Martin, as well as her biography, and vision.

"She will make an outstanding ITU Secretary-General and one IARU will be proud to work with on behalf of the Amateur Services," said Ellam.

*(ARRL*Special Bulletin: ARLX010)*

JOEL A. WILKS – AK1N – East Hampton, CT – August 1, 1946 - October 16, 2022

Joel Anthony Wilks, 76, of East Hampton, passed away peacefully at The Hospital of Central Connecticut on the morning of October 16 after a long illness with his loving family by his side.

Born August 8, 1946, in New Britain, he was the son of the late Joseph and Agnes (Hudak) Wilks. Throughout his life Joel was involved with the Catholic Church starting as an altar boy and lector at All Saints Church in New Britain.

In later years he helped collect donations during services at St. John's Church in Middletown. Growing up he loved playing all sports and notably was proud to be a quarterback for New Britain High School which he graduated from in 1964.

After receiving his degree from CCSU in 1969, he began teaching at East Hampton High School where he met his beloved wife of 50 years, Lynne (Boynton) Wilks. He absolutely loved being a teacher and very much enjoyed running into his former students. With regret he left this position in 1981 to be better able to support his growing family as a Master Planner at Pratt & Whitney where he enjoyed meeting new friends until his retirement in 2008.

He took an interest in Amateur Radio at age 13 and continued with it his entire life. His call sign was AK1N. A prior member of the Middlesex Amateur Radio Society in Portland, he was an accomplished CW and phone operator, involved in countless ham radio contests and was recognized for having contacted someone in every country of the world. In his retirement he volunteered at the Newington Amateur Radio League and for MILE at Middlesex Community College. He would want to send a "73" to all his ham contacts.

He enjoyed traveling with his wife to Egypt, Italy, Greece, Turkey, the Panama Canal, cruising to many of the Caribbean Islands and visiting all 50 states. Summers often found him at Great Diamond Island in Maine spending time with his family and also enjoying time at the casinos. He loved all animals and enjoyed taking his dog Mya and later Abby for walks.

He watched and attended many sporting events but most notably the UConn women's and men's basketball teams, the Boston Red Sox, and NY Giants.

Besides his wife, he is also survived by his two children of whom he was always extremely proud, Joel B. Wilks (Robin) of East Hampton and Tracy Cummings of Portland. He dearly loved being the grandfather of Zoey and Jackson Wilks, and Kaelyn and Connor Cummings. He enjoyed watching them in all their activities including sports and theater. He also leaves his ex-son-in-law William Cummings, his sister-in-law Anne B. Morse (Phil) of Arkansas, nephews Dana Morse, David Morse (Sindee), and Robert Gelazin, nieces Lynn Cantafi (Tom), Lisa Scotella (Jerry), Andrea Kobruck (William) and many great nieces, great nephews and cousins. He was predeceased by his parents Joseph and Agnes Wilks, his in-laws George and Theresa Boynton, sisters Sheila Wilks Pinto (Michael) and Dianne Wilks Gelazin (Robert).

The family is very grateful to Dr. Brian Byrne and his staff at the Hartford HealthCare Cancer Institute for the excellent care and compassion shown to Joel. A special thank you to our children Tracy and Joel for loving us, helping us, and supporting us in every way. Also, a special thank you to both William Cummings and Robin Wilks both of whom were always on-call and ready to help..

(Published by Hartford Courant on Oct. 19, 2022).

Ellen White - W1YL – Brandon, FL – December 19, 1926 – November 5, 2022

Ellen White, W1YL, of Brandon, Florida, passed away on Saturday, November 5, 2022. She was 95. White became a radio amateur in 1946 and devoted over 75 years of her life to ham radio, including more than 25 years on the headquarters staff for ARRL The National Association for Amateur Radio®. She retired in 1978 as Deputy Communications Manager and became the editor of the column "How's DX?" for ARRL's membership journal, *QST*. White was an ARRL Life Member and donor.

At its meeting in January 1978, the ARRL Board of Directors adopted a resolution recognizing White and her husband Robert (Bob) L. White, W1CW (SK), after having "completed a quarter-century of faithful service to the American Radio Relay League." The resolution cites that Ellen White had "built a reputation for thoroughness and objectivity on a mountain of contest logs," and celebrated her "intelligent and creative work as Deputy Communications Manager."

White was admired by the worldwide amateur radio community. In 2019, she was the sole US radio amateur to be awarded the Russian E.T. Krenkel Medal, a prestigious award granted to individuals and organizations for outstanding global contributions to amateur radio.

Director of ARRL's Publications and Editorial Department Becky Schoenfeld, W1BXY, reflected on the news of White's passing. "Ellen was a trailblazing woman in amateur radio. She and I corresponded over the years [before] finally meeting up at Orlando HamCation® in 2020. Ellen often marveled at how much farther women had come in the ham radio hobby, service, and community since she got her start. Every time I talked to her, I thanked her for paving the way," said Schoenfeld.

Remembrances for White began arriving at ARRL Headquarters early Monday morning.

First Class CW Operators' Club (FOC) Membership Secretary Tyler Barnett, N4TY, sent a message to all club members. "Ellen joined FOC in May 1966, and was active in retirement from her Florida contest station, and most recently remote via the W7RN Comstock Memorial station. … This is a very sad day. She will be missed on the air, and at the Florida dinners." Barnett said White was FOC member #875.

White was also referred to as the "founding grandmother" of the Florida Contest Group (FCG). President Chris Plumblee, W4WF, added, "It is fitting, in a few ways, that Ellen passed away during SS [ARRL Sweepstakes] CW, a contest that she administered for years while she worked at the ARRL."

White had already learned Morse code in high school, and only rarely operated any other mode. "Ellen loved CW, contesting, and DXing," said Rosalie White, K1STO (no relation), former ARRL Field & Educational Services Manager, who was hired by Ellen White to work for ARRL in 1973. "Ellen and I got a lot of hams asking, 'Are you Ellen's daughter?' or 'Are you Rosalie's mother?'" said Rosalie White. "We always replied, 'No, but that would've been cool.'" Rosalie White is now an ARISS-International US Delegate representing ARRL.

Rosalie White recounted that in the 1940s, Ellen and Bob White earned First Class Radiotelephone and Second Class Radiotelegraph commercial licenses. "She [Ellen White], being a maverick, also took the Class B FCC Amateur Radio test to become W2RBU, and promptly joined ARRL. Radio broadcast station KPOA based in Oahu, Hawaii, hired her (then KH6QI) as station engineer in the day when it was unheard of for a woman. She and Bob then headed to San Diego, California, where she took another radio broadcast engineer job, and also ran for and became ARRL San Diego Section Communications Manager (now called Section Manager). This was prior to their applying for jobs (at ARRL) in Newington in 1947."

The article "A Conversation with Ellen White, W1YL," by Rosalie White appeared in the May/June 2015 issue of *NCJ*, published by ARRL.

Eric Guth, 4Z1UG, of the QSO Today Amateur Radio Podcast, introduced Ellen White as the "Grande Dame" of amateur radio in an interview recorded on April 27, 2016 (read the transcript).

Ellen White was preceded in death by her husband Bob in 2003, and her son Jim White, K4OJ (SK), in 2004.

(ARRL News)

YCCC Contest Cookbook Index

Here is the new index to electronic editions of the YCCC Contest Cookbooks.
Index available on web at:

https://yccc.org/wp-content/uploads/filr/832/YCCC%20Contest%20Cookbooks%20Index.pdf

and at the YCCC Groups.io site at:

https://groups.io/g/yccc/files/Contest-Operating-Tips-Cookbooks/YCCC%20Contest%20Cookbooks%20Index.pdf

Year	Category/Band	Author [New callsign]
1992	Single Op	K1AR
1992	Single Op Assisted	KC1F
1992	Multi-Single Tips	K1VR
1992	Multi-Multi	NX1H
1992	160M	WA2SPL
1992	80M	K1XX
1992	40M	K2EK
1992	20M	NQ2D [K2XW]
1992	15M	WZ1R [N1RR]
1992	10M	W1KM

Year	Category/Band	Author [New callsign]
1993	Single Op	W1PH {W6PH]
1993	Multi-Single	KC1XX
1993	Multi-Multi	K1MNS [K1CA]
1993	160M	K1ZM / VY2ZM
1993	80M	W1FV
1993	40M	W1KM
1993	20M	KC1F
1993	15M	AA1AA
1993	10M	K1AR

Year	Category/Band	Author [New callsign]
1995	Introduction	KB2R [K1NU]
1995	Computers & ContestS	KY1H [K1TTT]
1995	Single Op Assisted - Medium to Little Pistol	K1KP
1995	Single Op - CQ WW	W1WEF
1995	160M	KM1H
1995	80M	NB1B [W1UE]
1995	40M	K5ZD
1995	20M	W1KM
1995	15M	K1DG
1995	10M	K1KI
1995	Chairs	K1VR
1995	1995-1996 Contest Propagation Predictions SSN = 15 Low	N6BV

YCCC Contest Cookbook Index (continued)

Year	Category/Band	Author [New callsign]
1997	Introduction	KB2R [K1NU]
1997	Computers & Contests	KY1H [K1TTT]
1997	Single Op Assisted - Medium to Little Pistol	K1KP
1997	Single Op - CQ WW	W1WEF
1997	160M	KM1H
1997	80M	NB1B [W1UE]
1997	40M	K5ZD
1997	20M	W1KM
1997	15M	K1DG
1997	10M	K1KI
1997	Chairs	K1VR
1997	1997-98 Contest Propagation Predictions SSN = Medium	N6BV

Year	Category/Band	Author [New callsign]
1998	Introduction	K1ZO
1998	Little Guns and Ops With Little Time	K1ZM
1998	160 Meters	K1ZM
1998	75 & 80 Meters	K1ZM
1998	40 Meters	K5ZD
1998	20 Meters	K5ZD
1998	15 Meters	K1ZR
1998	10 Meters	K1ZR
1998	Single-Op Assisted	AD1C
1998	1998-1999 Propagation Charts SSN = Medium	N6BV

Year	Category/Band	Author [New callsign]
1999	Introduction	K1ZO
1999	Contest Planning	K3ZO + K8CC
1999	Getting Started in CW Contesting	W1RZF
1999	TopBand	K1ZM
1999	80 Meters CW	W1MK
1999	75 Meters Phone	K1ZM
1999	40 Meters	K5ZD
1999	20 Meters	W1WEF
1999	15 Meters	K1ZR
1999	10 Meters	K1KI
1999	TNC Refresher	WA1ZYX
1999	Single-Op Assisted	AD1C
1999	Anatomy of a Contest	K1KI
1999	1999-2000 Propagation Charts SSN = Very High	N6BV

YCCC Contest Cookbook Index (continued)

Year	Category/Band	Author [New callsign]
2004-2005	Introduction	W1LLU
2004-2005	Getting Set for the Contest	W1WEF
2004-2005	Low Power Contesting	W1JQ
2004-2005	Low Power - Low Antenna Contesting Strategies	NJ1F
2004-2005	Tips for Little Guns & Contesters with Limited Time	K1ZM + N1RR
2004-2005	160 Meters	K1TTT
2004-2005	80 Meters CW	W1MK
2004-2005	75 Meters Phone	NJ1F
2004-2005	40 Meters	K5ZD
2004-2005	20 Meters	K1TTT + N1RR
2004-2005	15 Meters	KM3T
2004-2005	10 Meters	K1TTT
2004-2005	Multi-Operator Contesting	K1IR
2004-2005	How does it sound from the Caribbean?	K2KQ
2004-2005	Packet Spotting Plus Using Your Computer Successfully	K1TTT
2004-2005	Keeping More of What You Make	K1HT
2004-2005	A Sleep Strategy For DX Contesting	K5ZD
2004-2005	Thoughts on VHF/UHF Contesting	K2KQ
2004-2005	No Spots? No Sweat! The Top Ten List of Fun things to Do When the Flux Sux	NN1N [KW9A] or whatever his call is this week
2004-2005	2004-2005 Propagation Charts SSN=Low	N6BV

Year	Category/Band	Author [New callsign]
2020	Important Contest Rules	N1RR
2020	Get Ready Before The Contest	W1UE
2020	Single-Op Low Power	WA1Z
2020	Operating Strategies from a Small Station	K1AR
2020	Multi-Ops & Strategies	N2ZN
2020	Accuracy & Penalties	K1DG
2020	Sleep Strategies	K5ZD
2020	Log Analysis	K5ZD
2020	160 Meters	K1DG
2020	80 Meters	W1FV
2020	40 Meters	KD2RD

WRTC 2022 Competition Rules

These are the official competition rules for the World Radiosport Team Championship 2022 in Italy. They replace any previous version.

Any questions should be addressed to competition@wrtc2022.it or to the WRTC 2022 Mailing List (wrtc2022reflector@googlegroups.com)

2). 1. Contest Period The WRTC 2022 competition will be held concurrent with the IARU 2023 HF Championship. Start: Saturday July 8th, 2023 12:00 UTC (14:00 local) End: Sunday July 9th, 2023 11:59 UTC

2. Frequencies / Bands Only the 3.5, 7, 14, 21, and 28 MHz bands may be used. All participants must comply with the frequency regulations of the Italian "Ministero delle Imprese e del Made in Italy". Contestants must not operate outside of the allocated ham-radio bands and should follow the band plans recommended for IARU region 1(http://www.iaru-r1.org/index.php/spectrum-and-band-plans/hf)

3. Modes of operation CW and SSB.

4. Language Only English language and common international abbreviations may be used when operating either SSB or CW.

5. Contest Exchange
5.1 WRTC stations must send signal reports plus ITU zone (Italy is ITU Zone 28). A complete exchange must be sent and logged for each valid QSO.
5.2 Apart from 5nn no other abbreviations are allowed when sending the exchange either on SSB or CW. Operators must say 5-9 28 on SSB resp. 5nn 28 or 599 28 on CW. Further cut numbers such as enn28 are not allowed. Operators may increase the speed of the exchange up to a maximum of 50 WPM. Voice recorders are allowed to send the exchange on SSB.

6. Valid QSOs : Each callsign may be worked once on CW and once on SSB per band. Cross-band or cross-mode QSOs are not allowed.

7. QSO Points : Each valid two-way CW or SSB QSO is worth the following QSO points:
CW QSO Points Within Europe 2 Outside Europe 5
SSB QSO Points Within Europe 3 Outside Europe 6

8. Multipliers
8.1 The total number of DXCC countries plus IARU member society HQ stations on each band will count as multipliers, once per band regardless of the mode. IARU officials represent a maximum of four multipliers per band (AC, R1, R2 and R3).
8.2 IARU member society HQ stations and officials do not count for DXCC country multipliers.

9. Score : The final score will be: Score = (Total number of multipliers) x (the sum of QSO points). After adjudication the Judging Committee will calculate the final score for all entries based on Cabrillo logs submitted.

10. Champions : The WRTC 2022 Champion will be the team with the highest score.

11. Special Awards :
● The WRTC 2022 SSB Leader will be the team with the highest QSO total on SSB.
● The WRTC 2022 CW Leader will be the team with the highest QSO total on CW.
● The WRTC 2022 Multiplier Leader will be the team with the highest total number of multipliers.
● The WRTC 2022 Accuracy Leader will be the team with the lowest percentage of callsign/exchange errors.

As WRTC is a mixed mode contest, to apply for Single mode Special Awards a minimum of 35% of the total number of QSOs must be made in another mode.

12. Special Rules and Disqualification

12.1 WRTC 2022 stations must be QRT for at least 15 minutes prior to the contest start (by 11:45 UTC). The receiver volume of both radios must be turned fully off and no monitoring or transmitting is allowed within this 15-minute timeframe. The radios may be left powered on.

12.2 The operators are not allowed to intentionally identify themselves (i.e., revealing their own callsigns) before or during the contest or reveal their team identity in any way. Any attempt to do this such as by radio, telephone, SMS, internet, email, etc., may result in immediate disqualification. Requesting QSOs (e.g., setting schedules with special identification procedures in any way) before the contest period is strictly forbidden.

12.3 Operators may request QSOs with any station on another band/mode. All requests must be made during the contest period with no other attempt to reveal the team's identity. All requests can only be made on HF CW or SSB, and by no other means.

12.4 Use of DX spotting (e.g., Packet, Web, etc.), skimmer or any other spotting and supplementary information network is not allowed. Operators are not allowed to receive any assistance to learn the callsign or exchange of any station other than by tuning the radio and listening by human ears.

12.5 The use of any callsign database or the 'Super Check Partial' tool is not allowed. If the logging software incorporates this kind of feature, it must be disabled. The logging computer(s) may display a 'Check Partial' list based only upon the callsigns already worked during the contest.

12.6 The WRTC teams should work all callers without regard to nationality or different viewpoints.

12.7 The WRTC Contest is the equivalent of the Ham Radio Olympic Games. To maintain the spirit and credibility that his name implies, it should take a high level stand about how the teams should behave on the air. The Judging Committee may disqualify a team that commits any of (but not limited to) the following actions:
● Violation of the rules of the contest.
● Unsportsmanlike conduct.
● Taking credit for excessive unverifiable QSOs or unverifiable multipliers.

12.8 WRTC stations should not encourage "cheerleading", i.e. QSOs in which supporters make QSOs with only a favored team or exclusively spot that team on the DX-cluster. Cheerleading should be actively discouraged by the competitors and abuses through the use of cheerleading may result in QSOs being removed from logs as deemed necessary to assure a fair competition.

12.9 The decisions of the Judging Committee are final.

13. Callsign Allocation

13. Callsign Allocation: The callsigns assigned to the competitors will be selected from special calls in a "to be determined" series. The process of assigning calls and stations will be randomly designated by lottery on Friday, July 7th, 2023 before the contest. The competition callsigns will be given to the teams by their referee at the station 15 minutes before the contest at 11:45 UTC on Saturday, July 8th, 2023. Team members are not allowed to know the callsign before this time.

14. Logging

14.1 Computer logging is required.

14.2 Each WRTC 2022 team must submit its log file in Cabrillo format to their referee until 12:30 UTC on Sunday, July 9th, 2023. In addition the log needs to be provided in the source-format of the logging-software (e.g. wt4-Files for win-test).

14.3 All competitors are allowed to use any logging programs compliant with the follow basic rules:
● Generating a Cabrillo output according to Cabrillo-standard.
● Disabling the use of any callsign DATABASE, Master.DTA or the 'Super Check Partial' .
● Broadcast Score for real time scoring :

○ (https://contestonlinescore.com/blog/online-scoring-xml-specification/)
● QSO UDP Broadcast for Real Time QSO Collection :
○ (http://dxlog.net/docs/index.php/Additional_Information - UDP Broadcast section)
● The team is solely responsible to ensure the software conforms to WRTC 2022 standards as defined in these rules. The Cabrillo log needs to assign the transmitter id "t" according to Cabrillo-standard, i.e. by two different parameters "0" and "1" to identify the radio used for the QSO. For instance Win-Test needs to be configured in M/2 with Overlay WRTC. Other logging programs need to be configured similarly to indicate the radio. Details of the Cabrillo-format can be found on :
○ (http://wwrof.org/cabrillo/cabrillo-qso-templates/)

14.4 The Referee can connect his own Computer to the Ethernet Box supplied by WRTC 2022 Committee, with a designed Port that allows only to receive broadcast packet, allowing the Referee to be more effective on checking the Logged QSO, without interfering with the team members. The Team Leader is in charge of supplying to the referee the same software log version installed into the competitors computers.

14.5 In any case, it is the sole responsibility of the competing teams to create Cabrillo-compliant code with the software used in the contest. The Committee does not assume any responsibility for the conversion of log data into Cabrillo format.

14.6 Logging software must be configured to broadcast current score information for publication during the contest.

15. Recording

15.1 After the contest, each team must provide to the referee a continuous stereo audio recording of Radio A and Radio B on one of the following storage devices: ● USB2 compatible device (USB flash memory, USB hard drive) ● CD/DVD disk The recordings should be separated into two audio files, one for each radio. Recordings may be established in one of the following two formats: ● Two (2) separate files, one for each radio. ● One file with each radio on a separate channel.

15.2 The Judging Committee has the right to remove any claimed contacts not found in the recordings. Upon demand the teams must additionally provide the associated player, e.g. if non-standard audio formats are used.

16. WRTC 2022 Station Setup

16.1 Each participating WRTC team must bring everything needed for their station except items listed in Station Description.

16.2 Each WRTC 2022 station will have two radios – Radio A and Radio B.

16.2.1 Radio A and Radio B can each use only one antenna connector. This means that every transmission and reception must go through a single antenna connector of that Radio. No external receive antennas are allowed. External band-pass filters are allowed in the receive line if desired.

16.2.2 Use of any sub receiver in radios that are so equipped, is not allowed. This includes diversity receiving. Radios are not allowed to receive on two frequencies simultaneously. For a two channel (or multi-channel) radio (which has sub-receiver or parallel reception capabilities), which allows reception of signals on different frequencies simultaneously, the sub-receiver (or that parallel reception) must not be used. If the sub-receiver is technically required to operate the bandscope/waterfall, then technical means (e.g. mono headphone adapter) need to assure that no audio of the subreceiver can be utilized.

16.2.3 Operators are allowed to share audio between Radio A and Radio B. Each operator may listen to the other operator's radio and vice versa.

16.2.4 Both Radio A and Radio B are allowed to transmit. The contest is a full Two-Operator TwoTransmitter type operation. The only limitation is that each radio must transmit on a different band regardless of mode (e.g., if Radio A is on 15M SSB, Radio B is not allowed on 15M SSB or 15M CW during the same time).

16.2.5 Spectrum scopes (pan adapters) are allowed provided that they are used solely for spectrum visualization. The spectrum scope may be built-in to the radio or be a separate device. It may be connected to the radio or PC-A/B with the following limitations:

16.2.5.1 The only output from the spectrum scope can be video, i.e. it can show current or past signal strength (spectrum, peak hold or waterfall). Other demodulation, analysis or decoding, e.g. for the purpose of content analysis, CW-decode, station identification, Skimmer, etc., is not allowed.

16.2.5.2 The spectrum curve may be displayed in any suitable device, including the PC-A/B monitor screen.

16.2.5.3 Additional computers or an attached control console may be used for SDR signal processing.

16.2.5.4 The spectrum scope can be used to control frequency (e.g., tune Radio A/B).

16.2.5.5 If a remote control console or additional computer (16.2.5.5.) is used, then signal demodulation may happen in one and only one device (either the main radio or the control console). The control console must be within the provided tent and only be controlled by one – and only one – of the operators.

16.3 All radios must be commercially manufactured transceivers, meeting all manufacturer specifications.

16.4 Each team is allowed to have two backup radios. The backup radios may only be used in case of malfunction of the main stations´ radios and with approval of the referee.

16.5 Radio A and Radio B are each limited to 100 watts (KEY DOWN in CW, single tone in SSB) maximum power output. The power will be measured by a peak power monitor provided by the WRTC 2022 Organizing Committee. The monitor has two detectors which must be connected directly to Radio A´s and Radio B's respective antenna connectors. The power monitor acts on forward power only. Any devices connected after the detectors must not amplify the transmitted signal. All transmit- and received signals of one radio must pass the power detector of that radio. No bypassing of the detector is allowed.

16.6 Band-pass filters are allowed for both Radio A and Radio B. External antenna tuners are allowed for all antennas. These devices must be connected after the power detector. Any power losses from these devices may not be compensated for in any way.

16.7 Two networked PCs are allowed (PC-A at Radio A, PC-B at Radio B). The PCs should be named PCA and PC-B (or similar) within the team's logging software before the contest begins. No wireless connections are allowed from the PCs except for wireless keyboards resp. mice. No Wi-Fi or Bluetooth network connections are allowed. Network connections between logging computers must utilize the Ethernet switch provided by the WRTC 2022 Organizing Committee. Each team will provide two straight Ethernet cables to connect PC-A and PC-B to the Ethernet switch.

16.8 The computers of the competitors cannot use any other software other than logging software and spectrum curve software.

16.9 The teams must provide an audio output for both radios for use by the referee. This may be in parallel with the recording device described in rule.

16.10 The audio must be isolated so the referee may listen to either channel or both at the same time. The team may provide headphones for the referee or the referee may bring his or her own. In either case, it is the team's responsibility that the referee can monitor both radios continuously. If the referee uses his or her own headphones, it must not interfere with the team's audio in any way. The audio output should be terminated in a 3.5mm headphone female jack for the referee to plug into. If desired, the referee may bring an audio switch box to choose Left/Right or Both audio channels.

16.11 The teams must provide the equipment for recording the WRTC contest operation, including both the received and transmitted audio of Radio A and Radio B. With this equipment the teams must generate the audio recording described in section 15. The recording must be uninterrupted and comprehensive for the entire period of operation. A third PC is allowed for this purpose, but may not

be networked to PC-A or PC-B in any way. Operators are not allowed to review the recorded audio except for troubleshooting purposes while under the referee's supervision.

16.12 Teams may adjust the length of the 80M antenna to move its resonance from the low end of the band to the SSB portion or back. This may be done by opening or closing a connection at the ends of the 80m-dipole. The center, the length of the various sections and ends of the antenna must not be moved. This adjustment must be made while standing on the ground. No climbing of the antenna structure or other objects is permitted. In the case of a failure of the wire antenna(s), only the WRTC support staff is allowed to repair it. It is not allowed to move the antenna ends without explicit permission from the WRTC 2022 Organizing Committee.

16.13 Participants are not allowed to change or cut antenna coaxial cables provided by the organizer. All such cable lengths must remain unchanged. Any filters or other devices allowed as previously described must be connected after the entire length of cable provided.

16.14 Before the competition the Teams are allowed to use third party technical support to organize and install the station as well as to install and test software or other permitted devices and peripherals. The support team must leave the site area by 11:30 UTC on Saturday, July 8th, 2023 at the latest.

16.15 During the competition the Referee may permit repair of any equipment or antennas reported damaged during the operation. This can be done by the operators or by the WRTC support staff only. No third party is allowed in the operating area at any time during the competition.

16.16 All equipment used by any team must be located inside of the Site (except antennas and cables). Participants must stay in the Site and/or designated control area from Saturday, July 8,2023 at 11:45 UTC, until Sunday, July 9th, 2023, 12:30 UTC.

17.1 RADIO

RADIO A	RADIO B
1. Allowed to transmit	1. Allowed to transmit
2. Main receiver reception	2. Main receiver reception
3. Sub-receiver reception is not allowed	3. Sub-receiver reception is not allowed
4. VFO A and VFO B transmit	4. VFO A and VFO B transmit
5. A triplexer should be used on the triband antenna to provide 10/15/20 meter antenna inputs. See special triplexer section in the station description.	5. A triplexer should be used on the triband antenna to provide 10/15/20 meter antenna inputs. See special triplexer section in the station description.
6. Allowed to use band-decoder	6. Allowed to use band-decoder
7. Allowed to use audio and RF filters	7. Allowed to use audio and RF filters
8. Can share audio with Radio B	8. Can share audio with Radio A
9. Must share audio with Referee	9. Must share audio with Referee
10. Can be replaced by backup Radio (in case of failure)	10. Can be replaced by backup Radio (in case of failure)
11. Radio A cannot transmit on the same band as Radio B. The operator may listen to the same band as Radio B at any time. After one QSO is made on a band, all QSOs for that band must be made on the same radio during that time. Either radio may use any antenna but may not share that antenna with the other radio.	11. Radio B cannot transmit on the same band as Radio A. The operator may listen to the same band as Radio A at any time. After one QSO is made on a band, all QSOs for that band must be made on the same radio during that time. Either radio may use any antenna but may not share that antenna with the other radio.

17.2 COMPUTER

COMPUTER A	COMPUTER B
1. May be interconnected with Computer B	1. May be interconnected with Computer A
2. Allowed to key Radio A only.	2. Allowed to key Radio B only
3. Can exchange messages with Computer B	3. Can exchange messages with Computer A
4. Voice and CW keyers are allowed	4. Voice and CW keyers are allowed
5. Super Check Partial is not allowed	5. Super Check Partial is not allowed
6. Log must be converted to Cabrillo format after the contest.	6. Log must be converted to Cabrillo format after the contest

17.3 OPERATOR

OPERATOR A	OPERATOR B
1. Operator of Radio A	1. Operator of Radio B
2. Operator A can change position (chair) with Operator B at any time	2. Operator B can change position (chair) with Operator A at any time
3. Allowed to populate the band-map	3. Allowed to populate the band-map
4. Can exchange messages with Operator B	4. Can exchange messages with Operator A
5. Must share audio with the Referee throughout the contest	5. Must share audio with the Referee throughout the contest
6. Can share audio at any time with Operator B	6. Can share audio at any time with Operator A
7. Can operate any of the allowed devices.	7. Can operate any of the allowed devices

18. Conditions of entry By submitting an entry in the WRTC Contest the competing teams confirm that:

1. The rules of the contest have been read and understood and they are bound by them;

2. They operated within the limitations of all rules stipulated;

3. They agree to make the log and the audio recording, as well as photo and video material of its operation prepared by the organizer available to the general public at the sole discretion of the WRTC Organizing Committee;

4. All actions and decisions of the WRTC Judging Committee are official and final.

Frequency allocations in Italy for the amateur radio service are assigned by the "Ministero delle Imprese e del Made in Italy" and are listed on this website: www.mise.gov.it. As Italian laws are only written in italian language, an extract of the relevant frequency allocations is provided here: Frequency range 3,500 – 3,800 kHz 7,000 – 7,200 kHz 14,000 – 14,350 kHz 21,000 – 21,450 kHz 28,000 – 29,700 kHz II. IARU Region 1 band plan The IARU region 1 band plan is a recommendation for all radio amateurs how to use the bands, as revised at the Interim Meeting Vienna 2016, effective 01 June 2016. The latest version can be found on the website of the IARU: http://www.iaru-r1.org/index.php/spectrum-and-band-plans/hf III. Poor Signal Policy The transmit signal quality needs to follow standard engineering practices. The judging committee reserves all measures in case of excessive bandwidth in order to stop the interference.

Disclaimer: In the event of force majeure or the occurrence of an event beyond control, the WRTC2022 Organizing Committee might implement changes, deletions or additions to the event and its rules.

Additionally the WRTC 2022 Organizing Committee reserves the right to change the ruleset for technical, administrative or legislative reasons. These changes may be implemented upon short notice.

YCCC CLUB RESOURCE INFORMATION

DUES AND MEMBERSHIP STUFF Dues for the year are payable as of January 1st. Please note that payment of current dues IS NOT a prerequisite for contributing scores to the Club aggregate but IS required for participation in the Club's e-mail reflector and the Club's awards programs. The YCCC has a multi-tiered membership:

> **Full Member -** $15 (Available to amateurs residing within the Club territory for all YCCC member benefits and e-mail delivery of the Club newsletter.)
>
> **Family Member** - $0 (Grants full membership benefits to all family amateurs residing at one domicile upon payment of one member's "Full Member" annual dues. The Club Newsletter will be sent to the full member's email address.)
>
> **Student Member** - $10 (Grants full membership to studentsat a reduced cost.)
>
> **Subscription**- $10 (A "friend of YCCC", not a member, but a possible candidate for future membership and receives club newsletter in e-mail form.)
>
> **Former Member -** $0 (A former full member who has moved out of the Club territory may continue to participate in the Club's e-mail reflector and receive the e-mailed newsletter at no cost.)

You can tell if you owe dues by checking the Club roster on the website. A lapsed member can reinstate lost privileges by paying current year dues. Mail your dues to the club treasurer, **Chet Slabinski, N8RA, 200 Mount Parnassus Rd, East Haddam, CT 06423**, **or PayPal them to yccc-paypal@yccc.org**. Please include your callsign, family callsigns, and year(s) being paid. PayPal no longer allows the Club to receive dues from "family or friends" so you will not have that option.

SCUTTLEBUTT ARTICLES should be sent to the Scuttlebutt editor, Steve Rodowicz, N1SR, by e-mail at **n1sr@arrl.net** The deadline for each issue is the 10th of the preceding month or as announced on the YCCC e-mail list.

Scuttlebutt Advertising: Nominal Business Card sized ad, $50 per year (6 appearances)

CONTEST SCORES should be sent to the club scorekeeper, Alec Berman, W2JU, preferably by E-mail at **scores@yccc.org**. Please include details such as numbers of QSOs, QSO points (if appropriate), and multipliers (all types); entry category; and power.

CLUB GOODIES

BADGES YCCC badges are available from Tony, K1KP. Send $3, name and call desired on the badge, and your mailing address to Tony.

YCCC APPAREL & LOGO ITEMS:
Contact Gold Medal Ideas - https://stores.goldmedalideas.com/Yankee_clipper_contest_club/shop/home

QSL CARDS are ordered through Tom , W1TO. To order, complete the QSL form from the YCCC website, send it to W1TO who will verify all information is included and send to UX5UO after resolving any issues. You will receive a proof copy directly from UX5UO. Approve the proof after resolving any issues with UX5UO. Email acceptance to UX5UO with copy to W1TO. Current price is $45/thousand (matte) and $49/thousand heavy matte. Payment to UX5UO representative, KD4POJ at Mr David Lipscomb, KD4POJ, 4201 13th Street NE, Minot, ND, 58703. eMail: kd4poj@srt.com

MEMBERSHIP ROSTER is posed on the YCCC website. Updates are published in 'Movers and Shakers' when members move or change callsigns.

COMPUTER STUFF *INTERNET REFLECTOR* There is an Internet mailing list for YCCC members. To subscribe, go to https://groups.io/g/yccc/join and enter your email address.

WWW HOME PAGE Come visit us at http://www.yccc.org Our Webmaster is Mike Gilmer, N2MG.

QSL BUREAU – The *W1 QSL BUREAU* is sponsored by the YCCC. For more information at: www.w1qsl.org
Address: W1 QSL Bureau, PO Box 73, Marlborough, MA 01752-0073. Email address: w1qsl@w1qsl.org

ARRL COMMITTEE REPS:

CAC: **New England** Rudy Bakalov, N2WQ **RAC** Samuel A Ferris, VE5SF	**Hudson** Zev Darack, N2WKS	**Atlantic** Charles D Fulp Jr, K3WW
DXAC: New England Bob Beaudet, W1YRC	**Hudson** Saul Abrams, K2XA	**Atlantic** Chris Shalvoy, K2CS
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