

President's Message

Our *Solid Copy* editor Dick N9EEE certainly has admirable powers of persuasion. After being encouraged to join his MightyMites QRP crew for the CW Open in September he's contin-



(Continued on page 2)



AC6AC receiving the ultimate "award."

CWops "CWT" 1 hour 'tests
Every Wednesday at 1300z and 1900z
Every Thursday at 0300z and 0700z
Exchange: name/number (members)
name/SPC (non-members)
Avoid DX Pileups!

CWO Mini-club callsign web site:
<http://cwomc.org>

CWops "neighborhood": Look for CWops on 1.818, 3.528, 7.028, 10.118, 14.028, 18.078, 21.028, 24.908, 28.028, 50.098 "and up"

CWops Officers and Directors

President: Stew Rolfe, [GWØETF](#)
Vice President: John Glover, [W2QL](#)
Secretary: Jim Talens, [N3JT](#)
Treasurer: Craig Thompson, [K9CT](#)
Director: Theo Mastakas, [SV2BBK](#)
Director: Raoul Coetzee, [ZS1C](#)
Director: James Brooks, [9V1YC](#)
Director: Bert Banlier, [F6HKA](#)
Director: Barry Simpson, [VK2BJ](#)
Director: Riki Kline, [K7NJ](#)
Director: Ken Tanuma, [JN1THL](#)
WebGeek: Dan Romanchik [KB6NU](#)
Newsletter Editor: Dick Strassburger, [N9EEE](#)

Table of Contents

President's Message	1
Editor's Notes: Dits and Dahs	3
Ops' News and Notes	4
Directors Election	10
How We Were: K1LKP	11
NU6N: The Story Call History Can Tell	12
Dues Renewal	13
MØSDB: Tales of CW Addict	14
N1LN: CW Open Results	17
N9EEE: The MightyMitesQRP	34
N3JT: Nomination for Member Process	38
New Members	39
Giving Back	40
CW Academy	42
CWT Update	44
CWops Member Awards	45
QTX: The Art of Conversational CW	49
My Story: New Member Introductions	53

(Continued from previous page)

ued to enthuse me with the joys of five watts of CW. Yes, life does have time for QRP if you choose your other activities wisely.

My flirtation with QRP 'contesting' continues with the CWTs. The recent mood swings of our sun and erratic ionospheric conditions have if anything added to the interest. I can pretty much sense within the first 5 minutes what the challenge will be like over the next hour and when the bands are in poor shape I discovered I am routinely ending with +/- 1000 points. Before long and without realising this had become a de facto personal target. I've frequently just made the 4 digit score in the final one or two contacts sometimes with a reliance on one or both being multipliers. It can feel quite tense, even exciting, and puts a smile on my face. When the band conditions are clearly on a high that target inflates to 2000...

Of interest to the testers amongst us in this edition are the results of the CW Open contest from early September. The unique format of 3 independent sessions means Bruce N1LN (and Rob K6RB who runs the numbers through the adjudication software) have their work cut out to get the results out in good time; they do a great job for which the club is extremely grateful. And there's still more to do in shipping out the awards and plaques to the session winners. We owe a debt of gratitude to ICOM America for sponsoring these awards without which the shipping costs alone would probably render the presentation of hold-in-your-hand prizes untenable. Congratulations to all the winners and to all those who simply took part and provided all those contacts which made them winners!

Lately there have been some energetic threads on our Listserv discussing what probably is best described as 'ARRL Governance'. Opinions have been mixed including whether or not such material should be aired on the CWops Listserv in the first place. The one thing that does seem to attract unanimity among posters is a definite 'No' to increased censorship from the moderators. Individual users have the ability to decide for themselves what is suitable while at the same time being in control of what they choose to read, or not. I normally read my group messages as a daily digest and look forward to catching up on CWops chatter each day over breakfast, and I can see at a glance all new postings and fresh replies to existing threads. I'm able to choose which to read and which to ignore or defer until later. Some of the recent postings it seems to me would benefit by being visible to a far wider audience beyond our restricted 1914 members (at last check) who are registered on 'cwops.groups.io'. Nobody outside of this group is allowed to post, read current messages or access the archive. In comparison any comments published in *Solid Copy* are available for anyone to read, club member or not, and every past edition is accessible on the website and stored in the Internet Archive too. Food for thought perhaps if you have something particularly important to say?

Finally a couple of snippets of good news. Our Oceania ambassador, Chris Chapman VK3QB, has reported that the Wireless Institute of Australia working on behalf of IARU R3 has significantly rolled back on their [proposed reorganisation](#) of the Region 3 40-meter band plan (see the September 2024 *Solid Copy*). The threats to the CW allocation appears to have been removed and the process has now been handed directly to IARU R3. The primary CW allocation now suggested of 7000-7040kHz is in line with Region 1. All this was largely the result of strong and well crafted arguments put together by Chris and fellow CWops members VK2BJ and VK5GG who have clearly invested much time and effort in mounting an effective challenge. In the face of this approach along with the backing of major CW clubs including CWops, it seems WIA accepted their ideas

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were ill-considered and to their credit were willing to think again. Not quite the end of the story but so far a good result for CW. (<https://www.save40metrescw.com/news/>). And finally to last month's column in which I mentioned the extinct web pages of W4BQF (sk) and the article he wrote on QRQ operating that I assumed is no longer available. Well Hannu OH1HAQ (CWops #3304) sent me a pdf copy of said article along with a heads up about it also being available on the [website](#) of Martin OK1RR for others to read. I'd recommend you do. Thanks both.

73, Stew GWØETF, President (CWops #919)

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Editor's Note: Dits 'n' Dahs

Welcome to our new CWops members! This month we welcome 33 new members. Since January, we've welcomed 190 new members. That's quite some growth for the club; kudos to those who make CWops vibrant and appealing. And to our new members...whoa! You've just become a part of a very active group of CW operators of every possible activity and interest. Buckle up and hang on for an awesome ride in your CW journey.

In this newsletter, you'll probably have questions about some of our activities, so here's the explanation in a nutshell.

Awards...simply upload your log – yes, your entire log – and our database management tool will ferret out which contacts with CWops members qualify and which don't. So no sweat on your part...just be active in the CWTs and you are 75% of the way there. The other 25% is from other contests such as the CW Open and other on-air activities such as...

QTX...our Q-code for ragchewing. While this is not a contest that generates rankings, nonetheless we collect the data - your QSO count each month - and create a ranking. Its fun to see who spends more time on their radio than the other guy or gal and how many contacts they make. So, yes, we keep a ranking. And yes, it means there are awards for all that CW yacking.

CW Open is our annual contest that's held in early September. In this issue of *Solid Copy* you will find the results. What makes this contest different than all the others is the timing of the contest. It is split into three four-hour sprints within in a 24-hour period. What makes this fun is you can operate as much or as little as you like, and join a team if you have a competitive spirit.

Giving Back is in our DNA and easy for you to do. As you remember the helpfulness of others on your CW journey, we have a means for you to pass it forward called Giving Back. Just fire up your radio on 40 meters at 7:00 pm local time and be that considerate operator seeking out slower speed ops who may lack a little confidence on the key and help them get some on-air time so they can improve their skill.

Let this issue of *Solid Copy* be the one that welcomes you to CWops and deepens your involvement in the club. Be sure to submit your bio so we can get to know you.

73, Dick N9EEE, (CWops #3113)

Editor, *Solid Copy* (SolidCopy@cwops.org)

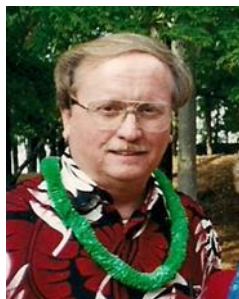


Ops News and Notes

[Duncan \(Mac\) Fiskén, G3WZD](#)

We regret to report that the following members have become Silent Keys.

Condolence cards have been sent on behalf of CWops.



**Chas Pennington, K4GK
#1474 on
26th September, 2024**



**Scott Dreher, WZ0W
#3394 on
5th October, 2024**

Welcome to another [Ops News and Notes](#), and my usual thanks for the contributions. Please do keep the submissions coming, and there's no need to wait until the monthly call for articles or reminder (thank you to those who sent items early). Deadline for the next column is 23:59 UTC 1st December.

(Errata: My apologies to Kat JM8SMO #3454 for busting his call on the photo caption last month – mea culpa! ON&N Ed.)

Saul, W3WHK #1392 Author, teacher, CWops #1418, and all-around good guy Dan KB6NU recently visited the Philadelphia (PA) area from Michigan to teach a Tech ham license course at a technology conference. I and WA3PZO (a fellow Holmesburg ARC officer, WM3PEN trustee, and local coordinator for the 13 Colonies event) had the pleasure of meeting Dan for the first time and having dinner with him. We talked about everything under the sun, so ironically missed the auroral display that I'm told was happening outside. It was, however, certainly worth it!

Jim, N3JT #1 K4IA has filed the annual documents for our club, registered in Virginia. Thanks, Buck.

Stew, GW0ETF #919 When I and some GM members met up with Jim N3JT and Nina at a Glasgow Pizza restaurant in August; Jim came bearing gifts. These were two weighty ARRL tomes, the Handbook and the Antenna Handbook - I do hope he wasn't relying on Nina to lug them around Scotland for a week! He very kindly presented me with the Antenna Handbook with the instructions to 'do with it as I see fit'. So, I decided to donate this bible of all thing's antennas to my local club for the benefit of its members, including me. The Dragon Amateur Radio Club, based on the Island of Anglesey, has a number of keen new members who would appreciate browsing its pages. The photo shows me presenting the book at a recent club meeting where the topic fittingly was "Making a 12m Antenna for the Forthcoming November 12m Challenge" (no commercial antennas allowed). To my left is Ian Capon (CWops #2896) who as club equipment officer will be keep-

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ing a close eye on it and oversee a loan system. Thanks Jim!



5th from Left (back row) GW0ETF, and 6th from Left GW0KRL

Now for some more news from me. On October 18th 1924 the very first 2-way trans-global wireless message was exchanged between the UK and New Zealand. The UK end was 2SZ (17-year-old Cecil Goyder at Mill Hill School in London) while Frank Bell was operating 4AA at Shag Valley on the South Island of New Zealand, all CW of course, on 'around 100m'.

NZART and RSGB celebrated the 100th anniversary by running some special calls over the Friday and weekend of October 18th - 20th with calls including G2SZ operating from Mill Hill, GB2NZ and G*6XX while ZL4AA operated from Shag Valley, plus ZM100DX. Both G*6XX and ZM100DX were made available for individuals to operate from their home, and ZM100DX will continue to be active until 26th December. In addition, lots of individuals in the UK and NZ were trying to make contacts on different modes in what weren't particularly favourable conditions.

I tried and failed on the Friday but was very pleased to manage a QSO with ZL4AA on Saturday 19th at around 0700z on 40m CW with 2 subsequent contacts with ZL3XDJ on 17m followed by 40m. On Sunday 20th I also ran GW6XX for a couple of hours on the WARC bands; this log has been uploaded to the CWops Awards Tool with 10 'hits' with other members. After all these years I still get a tingle up my back when I contact the other side of the world using my little black box in my 8ft by 6ft garden shed; OK this weekend I did run my amp, but you know what I mean!

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Our collective challenge now is to ensure the magic of dx on the short waves is not lost to future generations over the next 100 years.

The [ZM100DX QRZ](#) and [GB2NZ](#) links have lots of fascinating insights into this momentous occasion a century ago.

Buz, AC6AC #1911 WOW!!! Thanks!!! Getting a gift is always great. Getting a craft is a whole other level. I am showing this to my students and bragging... It will reside as part of my station. A beautiful gift and very much appreciated. It expresses my sentiments exactly. 73 and thank you, Jim N3JT!



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Josep, EA6BF #3072 Some news about my station. I have recently (Oct.14) set my remote station again for the winter season, October to May. This year's addition is a KPA500 + KAT500 and they really work awesome!! In about 10-12 days I have it set, I've done ~600 QSOs! See my [website](#) for more info on my setup.

Doug, KR2Q #438 Many thanks to Bob, K5WA for sponsoring the trophy, which arrived today (November 2, 2024)



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Tom, K5RC #108 I've been sick with COVID for more than two months. I had a near death experience that has caused me to reevaluate life, work and radio. [W7RN](#) has 8 towers and 54 antennas that require constant maintenance. I can't manage that to the level I have been doing since 2007. Eventually, I see myself selling the house and downsizing. I have lost my zeal for contesting and operating and more about our health and my work. I will support the local operators and our remotes as long as I am able. The good news is that I have my 20th book coming out in December and I still do online training, but I can deal with that from anywhere. For now, K5RC is QRX.

ON&N Editor's Note: Wishing you a speedy recovery, Tom!

Don, N1DG #2 On October 14 while I was visiting Tokyo, Ken Tanuma, JN1THL, and our Asia Director arranged a dinner of CWops members. Those attending and in the attached picture are JQ1LCW JE1TRV JF1UOX N1DG JN1THL JA8RUZ and JF1FXF.



L to R: JQ1LCW JE1TRV JF1UOX N1DG JN1THL JA8RUZ JF1FXF

Joe, K9UR #2102 This is my semi-annual reminder that the CWops-oriented Discord server is alive and well. The intent is for real-time collaboration among CWops members and is uniquely open to non-members who aspire to join our ranks, are in or have completed a CW Academy course, or want CW-oriented content as they progress along the path to higher CW proficiency with like-minded hams. There's good banter and chatter, younger ops and approx. 250 users and growing.

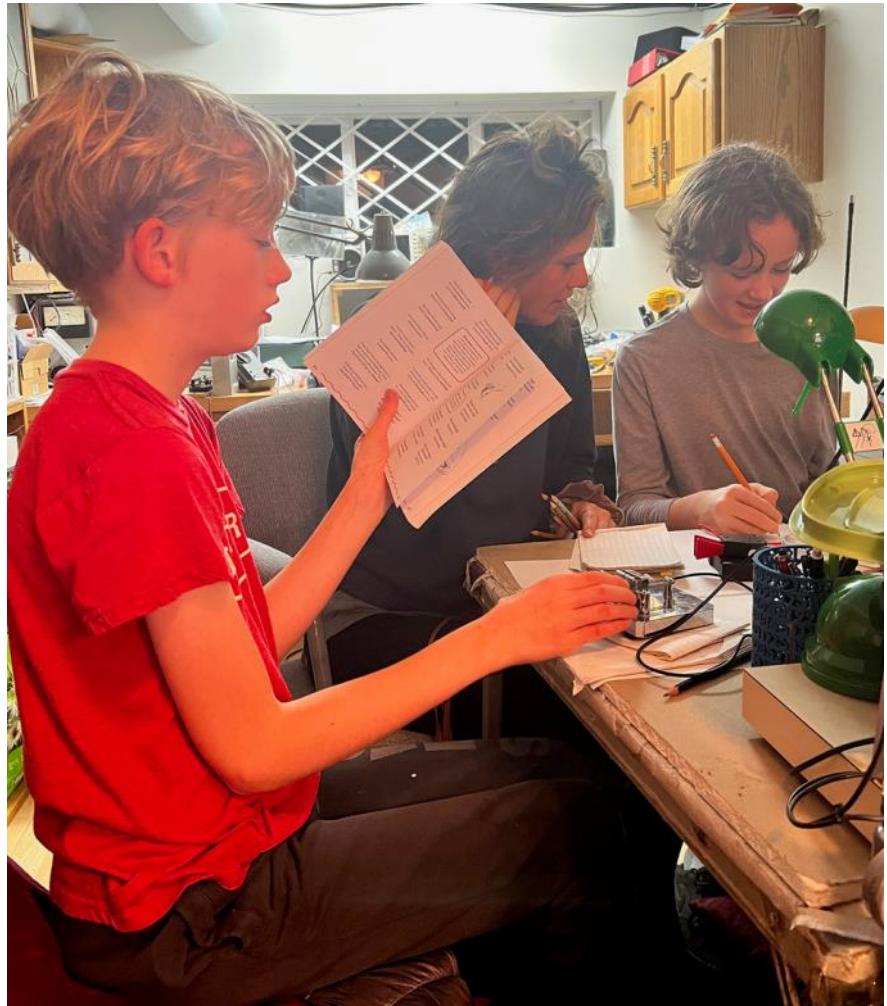
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Discord is a cross-device compatible app used for real-time communication. Started in the gamer community it now hosts many ham-oriented discussion groups. The features are more real-time and interactive compared to a list serve or groups.io email style technology, allowing photo and video content and more.

Here is a [server join link](#). If it's expired, [ask](#) and another link can be posted. Incidentally, any member of the CWops Discord server group can share a join link.

Guy, VA7GI #3256

Photo shows in-person Morse instruction of young boys. Chris (11) is sending jokes with paddles at 15 wpm. Soran (13) is copying. Their mother, Elsa, is trying to keep up. Mark, VA7MM, is on the air across town – sending and receiving kid jokes. Good fun!



Duncan, G3WZD #1979 Some of you may be familiar with [K9YA Telegraph](#). This is a free on-line publication which usually contains interesting articles about CW. Theo, SV2BBK #1976 has added the URL to the CWops.org [Resources](#) page under Misc. (thanks, Theo!) and you can subscribe [here](#).

Until the next News and Notes, QAC.

73, Duncan, G3WZD (CWops #1979)

NewsAndNotes@CWops.org

Directors Election

November is election season at CWops. For the first time in several years we have a contested election.

In 2024 we shall be electing the Vice President and Directors from Oceania, Europe and Africa. John, Bert and Raoul have expressed an interest in running to keep their seats. They are unopposed and therefore have been declared the winners.

We need a new Director for Oceania and we have two members who have stepped forward. We wish to thank Barry, VK2BJ, for his service.

The nominating committee is pleased to present the following slate:

Vice President: John Glover, W2QL (re-elected)

Directors: Raoul Coetzee, [ZS1C](#) (re-elected)
Africa

Bert Banlier, [F6HKA](#) (re-elected)
Europe

Jacky Calvo, ZL3CW
Open seat for Oceania

Allen Mason, VK2GR
Open Seat for Oceania

You may vote here: <https://cwops.org/cwops-elections-2024/>

Voting ends at 00:00 UTC Dec. 1

73,

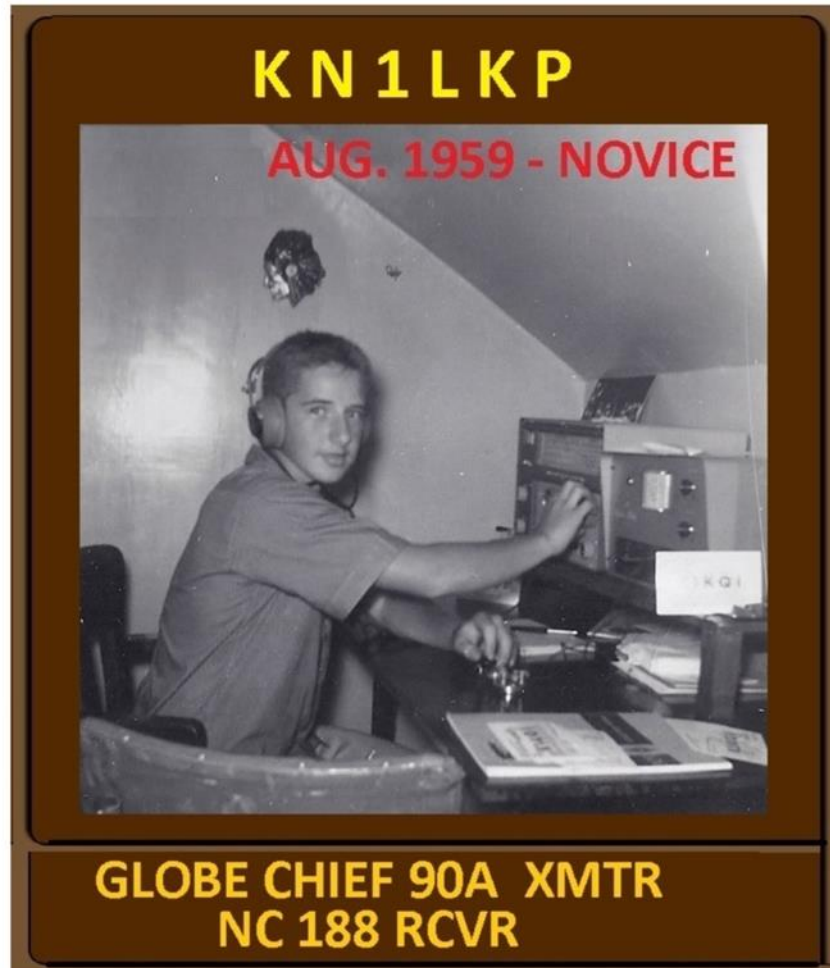
Don Greenbaum, N1DG
Chair, Nominating Committee
CWops #2



How We Were

[Ian Capon](#), GWØKRL

K1LKP, Carmen Drogo, CWops #724



"I was first licensed back in July of 1959. In Sept. 1961 I joined the Navy. I eventually became a radioman on an ole WW 2 diesel submarine, USS Tigrone SS-419 stationed in Groton, CT.

I was released from active duty in June of 1965. Being a radioman on a submarine back in the early 60's was very interesting (Cold War days). All of our communications with the outside world was via CW. Our assignments were along the East coast of the United States and we had our hands full with the Morse operators on those famous "Fishing Trawlers". My QRZ.com page has a lot of additional info regarding the Tigrone and it's radio room."

So now it's your turn, do you have a picture to share accompanied by a brief paragraph description, of your early days in radio, experimenting, exploring or just "being a ham".

Please send it to [Ian Capon](#).

73, Ian GWØKRL (CWops #2896)

The Story a “Call History” Can Tell

[Arkady Ten](#), NU6N CWops #2152

This writing was inspired by my experience during ARRL Sweepstakes, where I noticed a significant gap in new operator participation and some patterns in experienced operators' activity. I asked operators in the CWops Facebook group to share their ARRL SS logs, but I did not receive enough data. Later, while working on MorseCodeX development, I realized that I could use a call history file. The following analysis is based on the ARRL SS call history file. Call histories are not guaranteed to be absolutely accurate. For example, as evident in the data, the call history contains a significant number of entries with '0' as the year licensed. I suspect this is an operator-related error. While the call history is not 100% accurate, it should capture major trends.

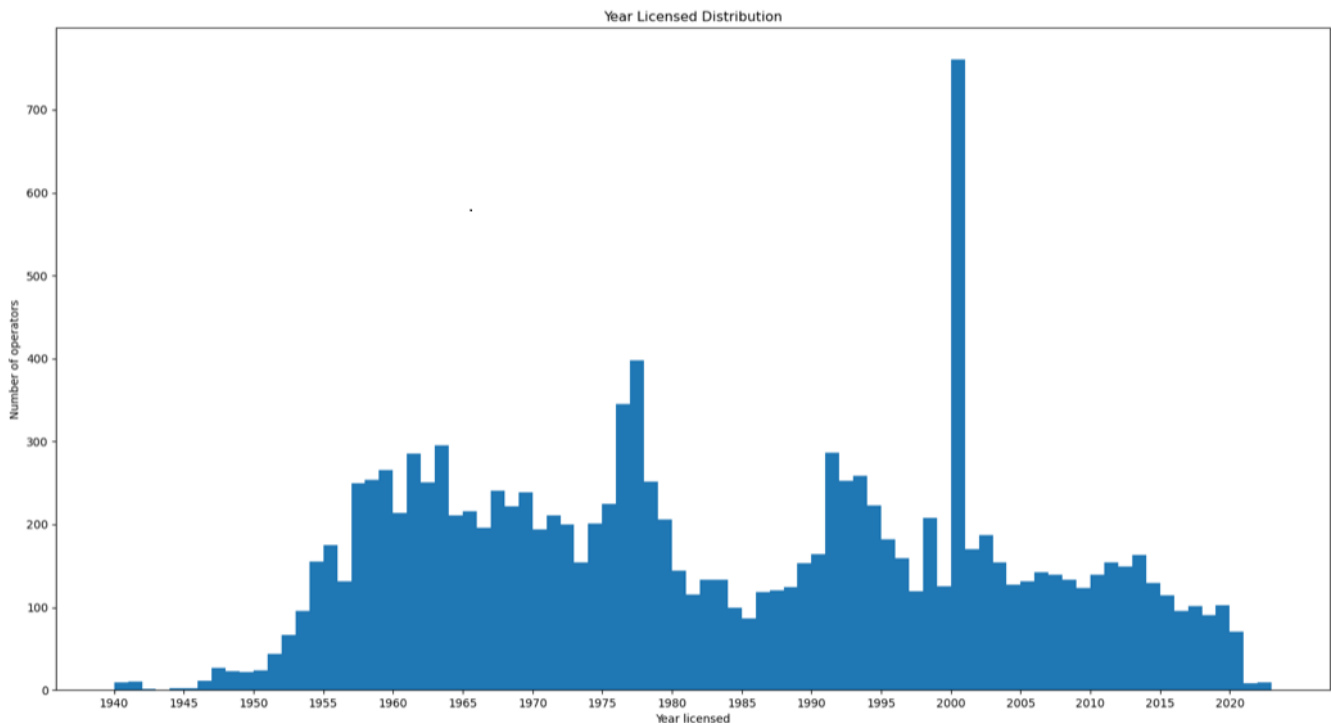


Figure 1 depicts a histogram illustrating the distribution of licensed operators by year, primarily in the US, based on ARRL Sweepstakes call history data. The histogram provides a clear view of some major trends.

The distribution is bimodal, with the first peak centered around the early 1960s. My hypothesis is that this peak may be related to retirement. Retirement may allow individuals to dedicate more time and effort to our hobby, leading to higher participation in contests.

The slope on the left side of the histogram reflects the aging population of operators leaving the hobby. On the right end of the histogram, we see how quickly new operators start participating in the Sweepstakes. There is a noticeable pattern that it often takes 2-10 years to gain enough experience and confidence to join the Sweepstakes contest. This trend suggests that we have room for improvement in introducing new licensees to contests.

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The spike around 1993 indicates that dropping Morse Code proficiency requirements significantly boosted participation in our hobby. The spike in the mid-1970s remains somewhat unclear, and I am curious to learn if our readers have insights on this trend. As mentioned earlier, the spike in 2000 is due to a data issue and should be disregarded.

The good news is that, while not as popular as it was in the 1950s and 1960s, our hobby has remained resilient in modern times, as demonstrated by the steady participation of 2000 and on licensees. We may need a few more years to fully understand the impact of COVID-19 on amateur radio activity, but the overall trends remain promising. We may need some measures to introduce new operators to contests, similar to those CWops and CWA are already doing.

MorseCodeX is a cross platform application to practice CW contest elements. It is to some degree a mid road between RufzXP and Morse Runner. The binaries for Mac and Windows are available for <https://github.com/actionwatcher/MorseCodeX/releases>.

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DUES REMINDER

It's time to renew your dues

or

Upgrade to a Life Membership.

PayPal, Stripe, or Check

(You don't need to set up a PayPal or Stripe account, because they both also accept credit cards.)

<https://cwops.org/members-only/annual-dues/>

CWops dues

One Year \$15.00 USD



Five Years \$60.00 USD



Life Membership \$125.00 USD



stripe **PayPal**

Tales of a CW Addict

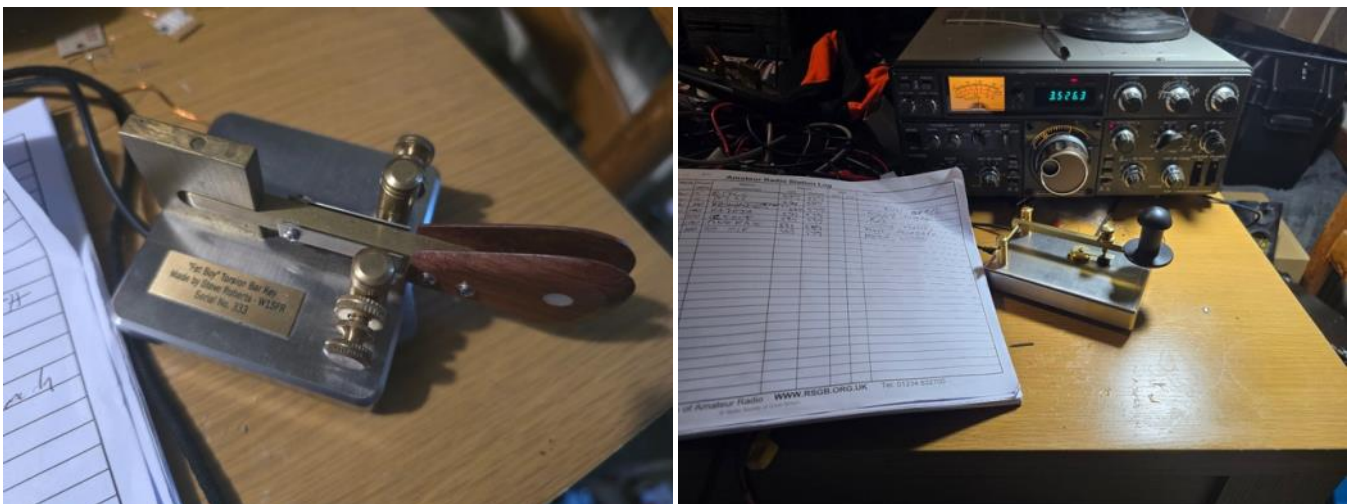
[Danny Bower](#), MØSDB CWops #3376

9 November 2024 marks three years since I made this post on a Facebook group regarding whether the Kanga FMT4 was a good device to finally start learning CW after a few years and many attempts to get it cracked. The feedback was largely positive however a few folks mentioned the mysterious CWA. Was this some kind of secret government agency or something much more mundane; a firm of accountants or a lawyers' practice maybe?

Further investigation was needed and the truth was far more exciting – the CWops Academy. This sounded like it could be just what I was looking for. So I signed up and had my first Beginners class 2 May 2022. The addiction started to take hold. Have been mainly a digital operator with a particular fondness for collecting as many grid squares on Grid Tracker using FT8 with the occasional foray into some SSB phone work it quickly became apparent that only CW would do for me.

By July 2023 I had graduated from Advanced and was a proud member of CWops proper (#3376) and in September 2023 took my first Beginners class as an adviser (something I highly recommend people try – it's very rewarding seeing students progress and get sucked into the addiction too).

By now it was clear there was no hope for me and the only cure was more CW. So, what else could I do with my newfound powers. I tried contesting and that was fun and I did well enough in the ones I entered to earn my own special contest call of M3O. I have played around with different types of keys - straight and cootie as well as single lever and dual lever paddles. I have very much fallen in love with cootie keying in particular. Yes, it is hard at first but so very satisfying when it starts to sound good.



Over this time something magical happened also; I started to hear just words in my head. I was vaguely conscious of the dits and dahs however in my mind it was just as if someone were speaking. A most odd but most exciting experience. It was also around this time that I started to make proper friends via CW. Speaking to the same operators regularly both on and off air and getting to know people in a way that no other medium seems to manage. I've always felt that HF comms

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are some form of witchcraft, sending signals from a piece of wire to bounce off the edge of space only to be picked up by someone else's bit of wire thousands of kilometres away. CW takes this to a whole new level, it beats any other social media network I've tried for sure.

These QSO's seem to just embed themselves in my mind and the more comfortable I get the more enjoyable proper ragchews become and the breadth of topics never fails to surprise me. Sure I've had lengthy chats about the usual subjects - ham radio in general, CW, keys, station set-ups and the like - however oftentimes things take an unexpected route. I've talked about redundancy, truck driving, chasing swans, falling into bags of sand, penguins jumping around on trampolines (yes really).

So over time my addiction is somewhat sated by having a good old natter with someone about, well, anything really. If that natter is when using my straight key or cootie then so much the better.

My other main method of feeding my addiction has been portable operations. How to increase the magic of CW comms over HF? Set up somewhere remote with nothing more than a QRP radio, a simple antenna, a nice rugged portable key and physics. I am very lucky to live in Sheffield, England and have the Peak National Park on my doorstep. Some of the most amazing scenery in the world just a few minutes' drive away.

However, my first dabble with /p ops was last July in Cyprus as 5B/M0SDB. I had completed my last Advanced class a day or two before from my hotel room and set up down on the beach.



Cyprus

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The thrill of making contacts fully portable is something I will never forget. And that was it, the /p bug has bitten hard. I've worked from many remote spot in the Peaks - in howling wind, rain and even snow. I've found I actually prefer being out in the wilderness in winter with my radios than summer. It is more of a challenge.

And I am writing this from Tenerife working as EA8/M0SDB and have had the excitement of finally working ZL, all from a simple /p set-up. As I said earlier, just magic.

So since that first Beginners class I have racked up nearly 4000 QSO's, have worked /p from the UK and abroad, have taught 3 CWA classes, have learned to key using a few different methods and most importantly, have made some lifelong friends. And all thanks to the CWA and CWops for lighting the fire.



Tenerife



Alport Castles - Peak National Park

As for the future, the addiction grows stronger and stronger so all I can do is keep on rockin'... keying...

Vy 73, Danny M0DSB



Bleaklow Moor - Peak National Park

The 2024 CW Open

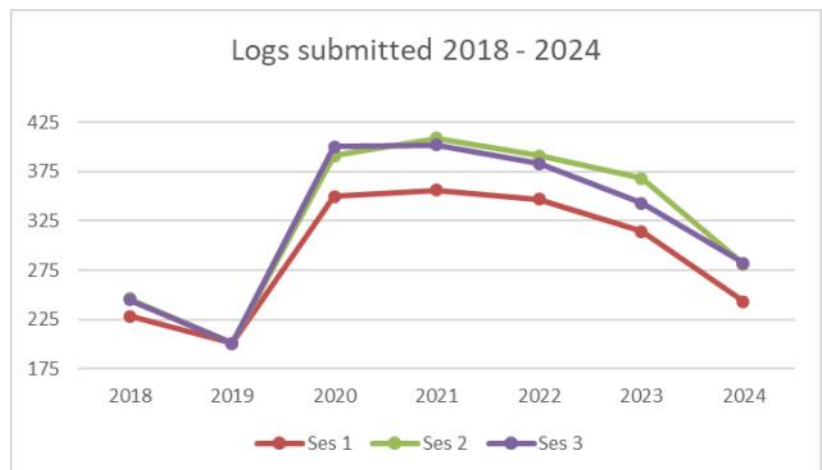
[Bruce Meier](#), N1LN (CWops #1141)



Sponsored by THE CW OPERATORS' CLUB

The CW Open is always held on the first weekend of September. This year it was held on September 7, 2024. CW Open Session 1 started on September 7 at 0000Z. Session 2 started at 1200Z and Session 3 started at 2000Z. This flexible session schedule allows participants to operate in all sessions or any combination of sessions. The winners of the trophies are selected by ITU region based on session high scores and combined scores. To qualify for an award a minimum of 100 QSOs must be attained in the individual session(s). The plaques are also ITU region based and awarded by session for high scores in each power level; High, Low, QRP. The specific winners of the trophies and plaques can be found below for each session.

With the increased sunspot activity, I was expecting the CW Open statistics to recover some of the previous year's losses and show an increase this year. Unfortunately, that was not at all what occurred. The graphs below show another year of decreases in every session, every category and also in every region. Even with the CW Open not falling on the last holiday weekend of the summer, North America Labor Day Weekend, the NA participation decreased the most.

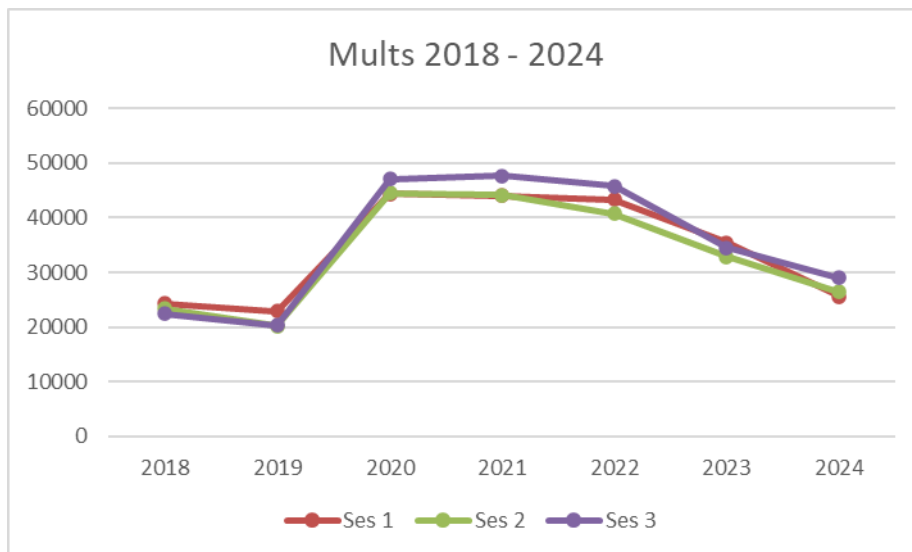
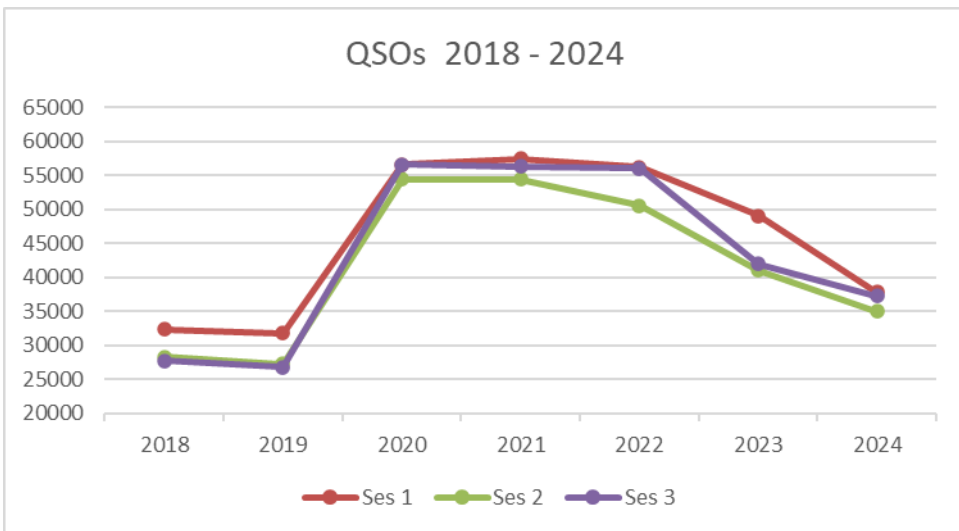
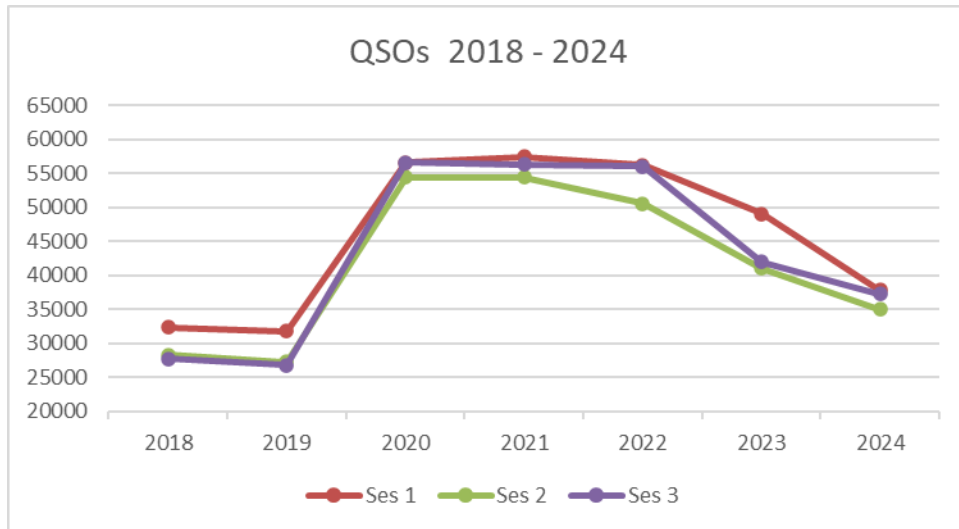


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Just look at the LOGS graph above. From our high total log submission of 1167 in 2021 to this year the log submissions dropped by 361 or 31%. CWops membership is going up, but participation in the CWO is going down. Before next year's CW Open, we need to figure out how to fix this.



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So, what is my conclusion? Honestly, I don't have one other than to say, we need to work together to stop this undesirable trend.

We would like to, once again, recognize and thank ICOM America for providing the beautiful trophies and plaques to the CW Open winners. The CW Operators Club really appreciates ICOM's continuing support of our premier operating event.



Please be sure to check out ICOM at: <http://www.icomamerica.com/en/amateur/>

I hope every participant had as much fun with this year's CW Open as I did. So, let us take a look at the 2024 results by Session.

Session 1 – 0000Z to 0400Z Analysis:

This year we had five different Ops win awards in Session 1. Unfortunately, no entry from Region 3 made the 100 QSO minimum to qualify. Region 1 High Power went to Armin (DK9PY) with 309 QSOs, 239 Multipliers resulting in a score of 73851. Juan (EA5FID) came in second for Region 1 with a score of 24156. Once again this year Region 2 High Power was dominated by Bud (AA3B) coming in first with an outstanding QSO count of 563, 266 Mults and a score of 149758. Zo (N5ZO) came in second place with a score of 135432. Moving on to Low Power, the Region 1 winner was Robert (SP1D) with a QSO total of 216 and a mult total of 159 resulting in a score of 34344. IVO (9A1AA) came in second posting a score of 31044. Region 2 was a close one this year with Eric (NM5M) finishing first with a QSO total of 387, a mult total of 227 and a score of 87849 points. Will (WJ9B) placed second this year with a score of 84700. Just 2 QSOs and 7 mults behind. In the QRP category, Region 2 was the only region to make the 100 QSO required total with Gary (W9TD) finishing first with a QSO total of 165, mult total of 137 and a total score of 22605. John (N5ER) finished in second place with a score of 20328.

Here are the details for Session 1. Plaque and Trophy winners are highlighted in **YELLOW**.

Rgn	Call	Op	QSO	Mult	Score	Power	Rgn	Call	Op	QSO	Mult	Score	Power
2	AA3B	BUD	563	266	149758	HIGH	2	K4RUM	MIKE	396	226	89496	HIGH
2	N5ZO	ZO	513	264	135432	HIGH	2	K4BAI	JOHN	379	232	87928	HIGH
2	AD4EB	JIM	463	254	117602	HIGH	2	W2GD	JOHN	401	218	87418	HIGH
2	N5RZ	GATOR	459	253	116127	HIGH	2	KC7V	MIKE	369	231	85239	HIGH
2	K3MM	TY	474	242	114708	HIGH	2	KT5C	MIKE	352	237	83424	HIGH
2	W8FJ	JOHN	473	242	114466	HIGH	2	K7QA	TOM	388	215	83420	HIGH
2	K7RL	MITCH	454	243	110322	HIGH	2	KR2Q	DOUG	366	223	81618	HIGH
2	NA8V	GREG	445	241	107245	HIGH	2	N0TA	JOHN	379	213	80727	HIGH
2	N3RD	DAVE	470	223	104810	HIGH	2	W4WF	CHRIS	358	225	80550	HIGH
2	N1LN	BRUCE	433	242	104786	HIGH	2	AB0S	TIM	376	214	80464	HIGH
2	N5EE	KEN	404	230	92920	HIGH	2	KE2D	BOB	357	212	75684	HIGH
2	K8IA	BOB	364	253	92092	HIGH	2	W5TM	ED	367	202	74134	HIGH
2	N7US	JIM	413	222	91686	HIGH	1	DK9PY	ARMIN	309	239	73851	HIGH
2	N3QE	TIM	370	245	90650	HIGH	2	K3MD	JOHN	331	210	69510	HIGH

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Rgn	Call	Op	QSO	Mult	Score	Power	Rgn	Call	Op	QSO	Mult	Score	Power
2	NA4J	JIM	337	205	69085	HIGH	2	W1UJ	JAY	128	107	13696	HIGH
2	K6NR	DANA	341	198	67518	HIGH	2	W4RN	MIKE	112	112	12544	HIGH
2	WG3J	ERIC	335	199	66665	HIGH	2	WO9B	MIKE	133	93	12369	HIGH
2	N8AA	JOHN	327	199	65073	HIGH	2	K5TS	DAVE	118	96	11328	HIGH
2	WA3AAN	GRANT	325	198	64350	HIGH	2	N1AU	JOHN	118	88	10384	HIGH
2	VE3NZ	BEN	327	190	62130	HIGH	2	W6SX	HANK	111	91	10101	HIGH
2	K1EBY	FRANK	340	182	61880	HIGH	2	K6ACW	RAY	99	99	9801	HIGH
2	N4IQ	BILL	307	201	61707	HIGH	2	N4TTU	TOM	107	91	9737	HIGH
2	WA7LNU	JACK	304	193	58672	HIGH	2	VE5MX	TODD	99	89	8811	HIGH
2	N5OT	MARK	286	203	58058	HIGH	1	DF5EG	JOE	90	88	7920	HIGH
2	N8KH	KEN	287	199	57113	HIGH	2	N4LSJ	TOM	99	79	7821	HIGH
2	N4AF	HOWIE	307	186	57102	HIGH	2	NC3Y	TOM	97	75	7275	HIGH
2	AE6Y	ANDY	293	194	56842	HIGH	1	SJ6R	MATS	86	76	6536	HIGH
2	W7CXX	JACK	294	187	54978	HIGH	1	DL6KVA	AXEL	85	75	6375	HIGH
2	K6RC	DAVE	275	197	54175	HIGH	2	N5EP	STEVE	94	65	6110	HIGH
2	K5UV	MIKE	267	199	53133	HIGH	1	PA3AAV	GERT	70	66	4620	HIGH
2	W3MA	JOHN	318	164	52152	HIGH	2	W2CDO	PETER	70	64	4480	HIGH
2	KY4GS	AMANDA	274	180	49320	HIGH	2	N4GO	JAY	66	66	4356	HIGH
2	K3UL	BOB	280	176	49280	HIGH	2	WB5N	DAVE	67	59	3953	HIGH
2	W8FN	RANDY	271	181	49051	HIGH	1	OK1OA	JIRI	63	62	3906	HIGH
2	KI7Y	JIM	280	174	48720	HIGH	2	WB0RLJ	JIM	62	59	3658	HIGH
2	K6RB	ROB	255	186	47430	HIGH	3	VK2GR	ALLAN	60	55	3300	HIGH
2	KC9EE	GARY	260	182	47320	HIGH	2	VA3SB	SERGE	55	55	3025	HIGH
2	KR2AA	ERIC	268	169	45292	HIGH	2	N7AAE	MARTY	58	52	3016	HIGH
2	KV0I	BILL	266	167	44422	HIGH	2	VE3TW	STAN	50	50	2500	HIGH
2	N3JT	JIM	239	177	42303	HIGH	2	N4YDU	NATE	48	48	2304	HIGH
2	N2RC	MIKE	229	176	40304	HIGH	2	K2GO	TOM	46	43	1978	HIGH
2	N3OC	BRIAN	229	169	38701	HIGH	2	AB2E	DARRELL	44	44	1936	HIGH
2	K0INN	TOM	213	171	36423	HIGH	2	WA5LXS	DENNIS	36	35	1260	HIGH
2	AD4SA	SCOTT	208	161	33488	HIGH	2	W5JK	STEVE	35	35	1225	HIGH
2	N5TJ	JEFF	202	165	33330	HIGH	2	K6NV	BOB	31	26	806	HIGH
2	K0TQ	MIKE	211	148	31228	HIGH	1	UT5NC	JP	25	25	625	HIGH
2	N9FZ	CAINAN	201	146	29346	HIGH	3	JN1THL	KEN	24	23	552	HIGH
2	WN7S	DICK	200	144	28800	HIGH	3	J1FXF	HIRO	23	23	529	HIGH
2	KC3M	JACK	205	137	28085	HIGH	2	KC8J	WALT	21	21	441	HIGH
2	VA2EBI	GEORGE	191	145	27695	HIGH	1	OH1ZAA	ZABA	21	20	420	HIGH
2	N4KH	JIM	182	139	25298	HIGH	2	AD0AB	JIM	15	15	225	HIGH
1	EA5FID	JUAN	183	132	24156	HIGH	3	JE1PEN	TED	9	9	81	HIGH
2	VE3EY	NICK	162	128	20736	HIGH	3	JS2IMR	TODD	8	8	64	HIGH
2	WA4JUK	JOE	162	118	19116	HIGH	2	PY3TX	CLEBER	8	7	56	HIGH
2	WA6URY	DAN	148	125	18500	HIGH	1	YE1GXQ	GEO	5	5	25	HIGH
2	N4BP	BOB	147	120	17640	HIGH	2	AG5ZN	BILL	3	3	9	HIGH
2	NF3R	JOEL	140	111	15540	HIGH	3	JF1UOX	MISA	3	3	9	HIGH
2	KA5M	MARSH	133	114	15162	HIGH	2	W0XM	BOB	64	0	0	HIGH
2	AF4T	DOUG	147	101	14847	HIGH							

Rgn	Call	Op	QSO	Mult	Score	Power	Rgn	Call	Op	QSO	Mult	Score	Power
2	NM5M	ERIC	387	227	87849	LOW	2	WP4TZ	MANU	209	172	35948	LOW
2	WJ9B	WILL	385	220	84700	LOW	2	NJ3K	BRUCE	221	157	34697	LOW
2	WT9U	JIM	356	201	71556	LOW	1	SP1D	ROBERT	216	159	34344	LOW
2	KU8E	JEFF	316	209	66044	LOW	1	9A1AA	IVO	199	156	31044	LOW
2	K3QP	BILL	275	201	55275	LOW	2	KM4FO	DWIGHT	202	144	29088	LOW
2	AA2IL	JOE	296	185	54760	LOW	2	VE3GFN	MIKE	203	138	28014	LOW
2	VE3MIS	LALI	300	180	54000	LOW	2	K8BB	DON	198	139	27522	LOW
2	ZF2VE	GERRY	283	189	53487	LOW	2	W3KB	KEITH	210	129	27090	LOW
2	KY4ID	MIKE	281	181	50861	LOW	2	W0ABE	FIN	193	140	27020	LOW
2	K2ZR	DICK	268	179	47972	LOW	2	N8LR	GARY	206	129	26574	LOW
2	KK0U	JIM	278	170	47260	LOW	2	AD8J	JOHN	192	122	23424	LOW
2	KA0PQW	MATT	236	165	38940	LOW	2	W3WHK	SAUL	181	124	22444	LOW

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Rgn	Call	Op	QSO	Mult	Score	Power	Rgn	Call	Op	QSO	Mult	Score	Power
2	WB8JAY	DAN	184	120	22080	LOW	2	K3ZA	TONY	44	35	1540	LOW
2	AA9RK	MIKE	175	125	21875	LOW	2	K3SV	BILL	37	37	1369	LOW
2	N2EY	JIM	182	117	21294	LOW	2	KK4E	DON	37	37	1369	LOW
2	W6RIF	REED	168	125	21000	LOW	2	AA4NO	BILL	38	35	1330	LOW
2	N5GG	COLIN	173	116	20068	LOW	2	K4GM	GEO	35	35	1225	LOW
2	K5XU	MIKE	156	110	17160	LOW	2	WS5D	JACK	34	34	1156	LOW
1	RG5A	ALEX	133	110	14630	LOW	2	W3UL	BILL	33	32	1056	LOW
2	N3RTW	SEAN	128	96	12288	LOW	2	N4ZZ	DON	29	29	841	LOW
2	VE3MA	ALEX	119	103	12257	LOW	3	J11RXQ	HIRO	29	28	812	LOW
2	N4CWZ	DAVE	114	107	12198	LOW	2	N8DD	CHAS	28	27	756	LOW
2	K17KY	BEN	112	93	10416	LOW	1	RV3ZN	ALEX	27	25	675	LOW
2	W4YE	BUDDY	115	85	9775	LOW	1	OM5NL	LACI	25	25	625	LOW
2	AC5XK	DON	106	91	9646	LOW	1	F6JOE	JEAN	26	23	598	LOW
2	WP3C	AL	103	90	9270	LOW	2	AA4SD	KRAIG	22	22	484	LOW
2	N4DW	DAVE	99	90	8910	LOW	2	AC5M	SETH	22	22	484	LOW
1	HA6NL	LACI	106	84	8904	LOW	2	VE3INE	MARY	22	22	484	LOW
2	KB8GAE	RICH	98	89	8722	LOW	2	AD2BO	RUSS	22	21	462	LOW
2	NV9X	JIM	101	83	8383	LOW	2	K4EVT	JEFF	20	20	400	LOW
2	N6CHU	BOB	103	79	8137	LOW	2	KB4DE	BILL	19	19	361	LOW
2	NF8M	FRANK	102	77	7854	LOW	2	KD2KW	KEN	19	19	361	LOW
2	KP3W	JOSE	98	77	7546	LOW	2	N1GVV	ADAM	19	18	342	LOW
2	K7GS	GARY	92	80	7360	LOW	2	K4RAB	RICK	19	17	323	LOW
2	N7WY	BOB	95	75	7125	LOW	1	PA2TA	TJ	16	16	256	LOW
2	W1EQ	BOB	90	75	6750	LOW	1	OZ1AAR	VILLY	14	14	196	LOW
2	KC6EOA	BRAD	85	67	5695	LOW	1	DL1NKB	BERND	11	11	121	LOW
2	W6QX	STEVE	85	67	5695	LOW	1	OK1DXX1	MIKE	11	11	121	LOW
1	EA5KO	ANDY	77	69	5313	LOW	3	JH4FUF	IKKAN	11	11	121	LOW
2	W9NXM	GUS	76	65	4940	LOW	3	VK2IM	VLAD	11	10	110	LOW
2	NN7O	TOM	75	61	4575	LOW	2	AA8IA	MIKE	10	10	100	LOW
2	N7SE	STEVE	71	62	4402	LOW	2	KQ1O	SANTI	9	8	72	LOW
2	N5XE	CARL	67	63	4221	LOW	1	UA3SDN	DIMA	5	5	25	LOW
2	AC3RA	RICH	68	62	4216	LOW	2	NJ4Q	WILL	5	5	25	LOW
2	AD2CC	SID	67	59	3953	LOW	2	K5VG	JOHN	4	4	16	LOW
2	K9CW	DREW	62	62	3844	LOW	2	W1HRB	HOWARD	4	4	16	LOW
2	N2EIM	BOB	61	60	3660	LOW	1	RT6N	EUGENE	3	3	9	LOW
2	VA4ADM	PAUL	62	58	3596	LOW	1	OH1SIC	GI	3	2	6	LOW
1	ZA1RR	MIRI	62	51	3162	LOW	3	JG1UQD	TAKU	1	1	1	LOW
2	AF8A	GARY	55	55	3025	LOW	3	VU3SPD	SREEVATHSA	1	1	1	LOW
2	W2QL	JOHN	52	52	2704	LOW	1	E77EA	DRAGAN	48	0	0	LOW
2	KE4EA	DAVE	52	50	2600	LOW	1	RC0CD	ALEX	6	0	0	LOW
2	K8GT	GERRY	55	47	2585	LOW	2	N2UU	BOB	22	0	0	LOW
1	M0RYB	PETER	52	47	2444	LOW							
2	KC3SJ	STEVE	47	43	2021	LOW							

Rgn	Call	Op	QSO	Mult	Score	Power	Rgn	Call	Op	QSO	Mult	Score	Power
2	W9TD	GARY	165	137	22605	QRP	2	AB7MP	MARK	67	50	3350	QRP
2	N5ER	JOHN	168	121	20328	QRP	2	KJ5T	STEVE	56	49	2744	QRP
2	K4PQC	PHIL	166	108	17928	QRP	1	OK2NAJ	JIRI	57	45	2565	QRP
2	W6JTI	FRANK	151	101	15251	QRP	2	N9EEE	DICK	42	37	1554	QRP
2	KJ4M	GENE	131	104	13624	QRP	2	W4JM	STEVE	26	26	676	QRP
2	W1UU	PETER	135	99	13365	QRP	2	N6HI	JOHN	18	17	306	QRP
2	W4CMG	CATHY	126	97	12222	QRP	2	N4NTO	TRIPP	12	12	144	QRP
1	GW4J	STEW	84	71	5964	QRP	2	K7KER	KAT	6	6	36	QRP
2	W7LG	MIKE	74	66	4884	QRP	2	AH7RF	HEATHER	1	1	1	QRP

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Session 2 – 1200Z to 1600Z Analysis:

Similarly to Session 1, we had seven different Operators winning awards in Session 2 this year. For Region 1 High Power, only 5 QSOs separated first place from second. Gert (PA3AAV) came in first with final numbers of 198 QSOs, 155 Multipliers and a score of 30690 just edging out Ulf (DL5AXX) who turned in a score of 29915. For Region 2 once again Bud (AA3B) finished in first place with a QSO count of 551, 317 Mults and a score of 174667. Gator (N5RZ) came in second place with a score of 140165. Moving on to Low Power, the Region 1 winner was once again Robert (SP1D) with a QSO total of 281 and a mult total of 214 resulting in a score of 60134. Ivo (9A1AA) once again finished in second place with a score of 40425. For Region 2 we had another horse race. This time between Eric (NM5M) and Gerry (ZF2VE). Eric had a QSO total of 361, a mult total of 236 resulting in a score of 85196. Gerry's second place score was 85089. For Region 3, Hiro (J11RXQ) exceeded the 100 QSO requirement finishing in first place with a QSO total 104, a mult total of 82 and a score of 8528. Moving on to QRP, in Region 1 Ado (LY2F) finished in first place with a QSO count of 117, a mult total of 87 and a score of 10179. For region 2, Gary (W7TD) once again finished in first place with a QSO count of 159, a mult total of 114 and a score of 18126. Peter (W1UU) came in second with a score of 14552.

Here are the details for Session 2. Plaque and Trophy winners are highlighted in **YELLOW**.

Rgn	Call	Op	QSO	Mult	Score	Power	Rgn	Call	Op	QSO	Mult	Score	Power
2	AA3B	BUD	551	317	174667	HIGH	2	N3JT	JIM	292	181	52852	HIGH
2	N5RZ	GATOR	485	289	140165	HIGH	2	KC3M	JACK	302	175	52850	HIGH
2	N5ZO	ZO	446	270	120420	HIGH	2	WA3AAN	GRANT	284	186	52824	HIGH
2	K3MM	TY	433	270	116910	HIGH	2	N8KH	KEN	276	190	52440	HIGH
2	N3RD	DAVE	452	257	116164	HIGH	2	KE2D	BOB	278	188	52264	HIGH
2	N1LN	BRUCE	424	271	114904	HIGH	2	N4IQ	BILL	263	194	51022	HIGH
2	K8IA	BOB	436	260	113360	HIGH	2	N4AF	HOWIE	227	195	44265	HIGH
2	W8FJ	JOHN	421	247	103987	HIGH	2	KR2AA	ERIC	233	187	43571	HIGH
2	AD4EB	JIM	380	253	96140	HIGH	2	WG3J	ERIC	210	167	35070	HIGH
2	KC7V	MIKE	366	240	87840	HIGH	2	WN7S	DICK	224	154	34496	HIGH
2	N2MF	BRIAN	336	242	81312	HIGH	2	KV0I	BILL	217	157	34069	HIGH
2	KR2Q	DOUG	338	235	79430	HIGH	2	KY4GS	AMANDA	226	149	33674	HIGH
2	KT5C	MIKE	331	234	77454	HIGH	2	K5UV	MIKE	213	152	32376	HIGH
2	W4WF	CHRIS	330	233	76890	HIGH	1	PA3AAV	GERT	198	155	30690	HIGH
2	W2GD	JOHN	333	220	73260	HIGH	2	N2RC	MIKE	211	142	29962	HIGH
2	K7QA	TOM	326	224	73024	HIGH	1	DL5AXX	ULF	193	155	29915	HIGH
2	AB0S	TIM	329	213	70077	HIGH	2	K5TS	DAVE	193	154	29722	HIGH
2	K4RUM	MIKE	316	218	68888	HIGH	2	VE3CT	ART	185	159	29415	HIGH
2	N7US	JIM	320	213	68160	HIGH	2	N5OT	MARK	199	145	28855	HIGH
2	N0TA	JOHN	306	219	67014	HIGH	2	N8AA	JOHN	187	154	28798	HIGH
2	KU8E	JEFF	305	210	64050	HIGH	2	W1UJ	JAY	195	146	28470	HIGH
2	N4BP	BOB	309	206	63654	HIGH	2	W5JK	STEVE	190	146	27740	HIGH
2	K3UL	BOB	291	212	61692	HIGH	1	M2G	JOHN	181	153	27693	HIGH
2	W3MA	JOHN	303	203	61509	HIGH	1	SM6F	LARS	178	147	26166	HIGH
2	N3QE	TIM	287	213	61131	HIGH	2	W7JET	BB	179	142	25418	HIGH
2	K4BAI	JOHN	289	210	60690	HIGH	2	K0INN	TOM	179	140	25060	HIGH
2	K6RB	ROB	315	192	60480	HIGH	2	K3MD	JOHN	187	132	24684	HIGH
2	W5TM	ED	309	193	59637	HIGH	2	N5TJ	JEFF	175	137	23975	HIGH
2	K1EBY	FRANK	289	202	58378	HIGH	2	W8FN	RANDY	183	129	23607	HIGH

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Rgn	Call	Op	QSO	Mult	Score	Power	Rgn	Call	Op	QSO	Mult	Score	Power
2	K2GO	TOM	159	140	22260	HIGH	2	W4RN	MIKE	79	66	5214	HIGH
2	W1WEF	JACK	156	139	21684	HIGH	1	OK1OA	JIRI	71	67	4757	HIGH
1	SD1A	ERIC	157	135	21195	HIGH	1	IT9VDQ	GIU	74	64	4736	HIGH
2	VE5MX	TODD	159	129	20511	HIGH	2	AD4SA	SCOTT	74	64	4736	HIGH
2	VE3NZ	BEN	154	130	20020	HIGH	2	K1MT	DAVID	76	62	4712	HIGH
1	SJ6R	MATS	151	131	19781	HIGH	1	MM2T	PHIL	71	66	4686	HIGH
1	F5SGI	JEAN	150	125	18750	HIGH	2	AF4T	DOUG	69	65	4485	HIGH
2	VA3SB	SERGE	143	128	18304	HIGH	1	HB9BJL	CHRIS	69	62	4278	HIGH
2	KI7Y	JIM	161	107	17227	HIGH	2	N1AU	JOHN	60	54	3240	HIGH
2	W6SX	HANK	146	116	16936	HIGH	2	AB2E	DARRELL	55	51	2805	HIGH
1	M4N	MIKE	136	107	14552	HIGH	2	N7AAE	MARTY	54	47	2538	HIGH
2	K0TQ	MIKE	141	103	14523	HIGH	2	KC8J	WALT	51	48	2448	HIGH
1	IK3VUT	LUCA	124	107	13268	HIGH	2	N4LSJ	TOM	53	43	2279	HIGH
1	DF5EG	JOE	121	108	13068	HIGH	1	PC4H	HENK	48	46	2208	HIGH
2	K6RC	DAVE	119	103	12257	HIGH	2	N5WNG	MIKE	47	46	2162	HIGH
2	N4YDU	NATE	117	100	11700	HIGH	2	W2CDO	PETER	47	45	2115	HIGH
2	WB0RLJ	JIM	105	105	11025	HIGH	2	VE3TW	STAN	50	39	1950	HIGH
1	EA1X	JUAN	112	98	10976	HIGH	1	EI7GY	JOE	40	37	1480	HIGH
1	SF1Z	JENS	108	95	10260	HIGH	2	WA5LXS	DENNIS	40	37	1480	HIGH
1	EA5FID	JUAN	102	90	9180	HIGH	1	M0NGN	NIGE	41	36	1476	HIGH
2	WA6URY	DAN	108	85	9180	HIGH	1	DL4ME	RON	39	36	1404	HIGH
2	W7CXX	JACK	105	86	9030	HIGH	1	YE1GXQ	GEO	40	32	1280	HIGH
2	VA3IK	BRIAN	104	85	8840	HIGH	1	M0NJW	NIGEL	31	28	868	HIGH
2	KA5M	MARSH	102	85	8670	HIGH	1	DF9ZV	GEORG	26	25	650	HIGH
1	SN5N	CHRIS	94	92	8648	HIGH	2	NS4X	BART	24	24	576	HIGH
2	N3CW	ED	100	83	8300	HIGH	1	SQ9MZ	HENRY	23	20	460	HIGH
2	W4NZ	TED	96	84	8064	HIGH	1	UT5NC	JP	10	10	100	HIGH
2	N4TTU	TOM	98	82	8036	HIGH	3	JJ1FXF	HIRO	9	8	72	HIGH
3	VK2GR	ALLAN	91	86	7826	HIGH	1	RK3TD	SERG	8	8	64	HIGH
1	OH1ZAA	ZABA	95	76	7220	HIGH	2	AG5ZN	BILL	7	7	49	HIGH
1	OH1NA	TIMO	88	77	6776	HIGH	1	EA6EJ	INI	21	0	0	HIGH
1	YL2VW	AGRIS	83	76	6308	HIGH	2	W0XM	BOB	34	0	0	HIGH
3	JN1THL	KEN	79	68	5372	HIGH							

Rgn	Call	Op	QSO	Mult	Score	Power	Rgn	Call	Op	QSO	Mult	Score	Power
2	NM5M	ERIC	361	236	85196	LOW	2	VE3GFN	MIKE	139	115	15985	LOW
2	ZF2VE	GERRY	339	251	85089	LOW	2	N8LR	GARY	144	109	15696	LOW
2	N4ZZ	DON	349	235	82015	LOW	2	K8BB	DON	137	110	15070	LOW
2	WJ9B	WILL	359	215	77185	LOW	1	M0RYB	PETER	135	107	14445	LOW
2	WT9U	JIM	296	215	63640	LOW	2	KB8GAE	RICH	136	106	14416	LOW
1	SP1D	ROBERT	281	214	60134	LOW	1	EA4HKF	JOSE	129	108	13932	LOW
2	NJ3K	BRUCE	270	200	54000	LOW	1	DL2NBY	TOM	134	101	13534	LOW
2	KK0U	JIM	248	185	45880	LOW	2	KE4EA	DAVE	132	98	12936	LOW
1	9A1AA	IVO	231	175	40425	LOW	2	KP3W	JOSE	128	98	12544	LOW
2	WP4TZ	MANU	214	165	35310	LOW	2	N2EY	JIM	125	99	12375	LOW
2	K2ZR	DICK	200	158	31600	LOW	2	VE9KK	MIKE	127	89	11303	LOW
2	NE5A	GEORGE	202	147	29694	LOW	2	W3UL	BILL	116	96	11136	LOW
2	KI7KY	BEN	192	141	27072	LOW	2	W3KB	KEITH	120	92	11040	LOW
1	OM5NL	LACI	181	148	26788	LOW	1	HB9ARF	PHIL	104	95	9880	LOW
2	VA3SP	MIKE	176	135	23760	LOW	2	N2EIM	BOB	103	90	9270	LOW
2	KB3AAY	RON	172	130	22360	LOW	2	KD2KW	KEN	101	90	9090	LOW
2	VE3EJ	JOHN	160	138	22080	LOW	1	EA3FZT	FRANCIS	102	88	8976	LOW
2	NO5W	CHUCK	164	133	21812	LOW	2	AC3RA	RICH	105	84	8820	LOW
1	RG5A	ALEX	167	129	21543	LOW	3	J11RXQ	HIRO	104	82	8528	LOW
2	K3QP	BILL	154	138	21252	LOW	2	N4DW	DAVE	97	87	8439	LOW
1	G4PVM	PAUL	165	126	20790	LOW	2	N9FZ	CAINAN	98	86	8428	LOW
2	VE3MIS	LALI	158	129	20382	LOW	2	KB3FW	HARV	95	81	7695	LOW
2	W1EQ	BOB	151	130	19630	LOW	3	VK2IM	VLAD	91	84	7644	LOW
2	N5XE	CARL	156	106	16536	LOW	2	KK4E	DON	90	77	6930	LOW

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Rgn	Call	Op	QSO	Mult	Score	Power	Rgn	Call	Op	QSO	Mult	Score	Power
2	N4CWZ	DAVE	88	76	6688	LOW	2	W6RIF	REED	33	32	1056	LOW
1	HA9RC	ZOLI	87	76	6612	LOW	2	N7JI	SCOTT	34	29	986	LOW
2	W7LG	MIKE	88	75	6600	LOW	1	HA9TA	TIB	31	31	961	LOW
1	G3LHJ	DERRICK	84	75	6300	LOW	1	OK2PF	JIRI	31	30	930	LOW
1	IN3FHE	HELGA	81	76	6156	LOW	1	OH1SIC	GI	30	30	900	LOW
1	OK2HBR	ZDENEK	84	72	6048	LOW	1	PA2TA	TJ	30	29	870	LOW
1	SC6O	BEN	81	74	5994	LOW	2	KB4DE	BILL	29	29	841	LOW
2	N3CKI	DAVE	79	73	5767	LOW	1	DJ1OJ	HEIJO	28	28	784	LOW
1	SM5IMO	DAN	82	69	5658	LOW	1	DK2FG	PETER	28	28	784	LOW
2	NG7M	MAX	78	71	5538	LOW	1	OK2IW	SWAT	27	27	729	LOW
2	N7WY	BOB	78	70	5460	LOW	2	K2QB	JIM	27	27	729	LOW
1	SD6F	KLAS	78	68	5304	LOW	2	N5NR	PAUL	30	23	690	LOW
1	EA5KO	ANDY	77	68	5236	LOW	2	AA4SD	KRAIG	26	26	676	LOW
1	SE5V	CLAES	76	68	5168	LOW	1	DL4KG	GERALD	26	25	650	LOW
2	WB8JAY	DAN	79	63	4977	LOW	1	DK5ZX	TER	25	24	600	LOW
2	AD8J	JOHN	74	65	4810	LOW	2	AC5M	SETH	26	23	598	LOW
2	K5XU	MIKE	75	62	4650	LOW	2	VE3INE	MARY	24	24	576	LOW
2	WP3C	AL	70	64	4480	LOW	1	DL1NKB	BERND	23	23	529	LOW
2	AC5XK	DON	71	63	4473	LOW	1	OE6JOZ	JOE	24	20	480	LOW
2	VE3MA	ALEX	73	60	4380	LOW	1	OH2BN	JARMO	24	20	480	LOW
2	K9CW	DREW	65	60	3900	LOW	1	SV1DAY	MANOS	21	21	441	LOW
1	ZA1RR	MIRI	68	57	3876	LOW	1	SF6W	GEO	18	18	324	LOW
1	SQ9S	ADAM	61	61	3721	LOW	2	K4RAB	RICK	18	18	324	LOW
2	K2NV	TONY	63	56	3528	LOW	1	LZ2MP	MILEN	15	15	225	LOW
2	N5GG	COLIN	58	56	3248	LOW	3	JH4FUF	IKKAN	14	14	196	LOW
2	NF8M	FRANK	60	50	3000	LOW	2	KF3G	SAM	15	13	195	LOW
2	AD2CC	SID	60	49	2940	LOW	2	AF8A	GARY	13	13	169	LOW
1	OZ1AAR	VILLY	55	52	2860	LOW	1	OE1TKW	HELMUT	11	11	121	LOW
3	DS1TUW	JI	55	52	2860	LOW	2	AA4NO	BILL	11	10	110	LOW
2	N1GVV	ADAM	56	51	2856	LOW	1	PC4Y	BERT	10	10	100	LOW
2	W2QL	JOHN	53	53	2809	LOW	1	DF7WY	MIKE	9	9	81	LOW
2	K3HW	BILL	55	49	2695	LOW	2	KC3NDU	KEITH	7	7	49	LOW
2	KC3SJ	STEVE	52	51	2652	LOW	1	PD5BS	BILL	5	5	25	LOW
1	EA4M	RICK	53	50	2650	LOW	2	KC6EOA	BRAD	4	4	16	LOW
1	IK3QAR	PAOLO	51	44	2244	LOW	2	NJ4Q	WILL	3	3	9	LOW
2	NN7O	TOM	55	40	2200	LOW	3	VU3SPD	SREEVATHSA	2	2	4	LOW
2	N4IW	DAVID	47	40	1880	LOW	1	SP5NZF	KUBA	1	1	1	LOW
2	N7SE	STEVE	44	40	1760	LOW	1	E77EA	DRAGAN	16	0	0	LOW
2	WS5D	JACK	44	40	1760	LOW	1	EA2AZ	AGUS	10	0	0	LOW
1	RN4SC	ALEX	45	38	1710	LOW	1	I2JIN	BOB	1	0	0	LOW
2	N4IU	PAT	43	38	1634	LOW	1	UA4FCO	YURI	33	0	0	LOW
2	AA9RK	MIKE	40	40	1600	LOW	1	UT4LW	YURI	61	0	0	LOW
2	AA8IA	MIKE	38	38	1444	LOW	2	AB5XM	ALLAN	2	0	0	LOW
1	UY1HY	VAL	37	37	1369	LOW	2	XE2F	RAFA	2	0	0	LOW
2	W6QX	STEVE	35	33	1155	LOW							

Rgn	Call	Op	QSO	Mult	Score	Power	Rgn	Call	Op	QSO	Mult	Score	Power
2	W9TD	GARY	159	114	18126	QRP	1	UR9QQ	SERGII	26	26	676	QRP
2	W1UU	PETER	136	107	14552	QRP	2	AB7MP	MARK	28	22	616	QRP
2	K4PQC	PHIL	108	95	10260	QRP	2	N4NTO	TRIPP	24	24	576	QRP
1	LY2F	ADO	117	87	10179	QRP	2	N5ER	JOHN	15	15	225	QRP
1	GW4J	STEW	99	83	8217	QRP	2	N6HI	JOHN	13	13	169	QRP
1	OK2NAJ	JIRI	100	82	8200	QRP	2	W7AQB	JARED	12	12	144	QRP
2	N0MII	JEFF	66	63	4158	QRP	1	DO6AN	NILS	11	11	121	QRP
2	W4CMG	CATHY	59	50	2950	QRP	2	KD9UYC	MARK	9	9	81	QRP
2	N9EEE	DICK	43	41	1763	QRP	2	K7KER	KAT	5	5	25	QRP
1	YO4AAC	GEORGE	37	32	1184	QRP	1	G0DJA	DAVE	1	1	1	QRP
1	PE2K	ADI	28	26	728	QRP							

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Session 3 – 2000Z to 0000Z Analysis:

Once again there were seven different Operators qualifying for awards in Session 3. Starting in Region 1 High Power, Luca (IK3VUT) finished first with 274 QSOs, 206 Multipliers and a score of 56444. Juan (EA1X) came in second with a score of 55002. Bud (AA3B) completed his 3 Session sweep with another first place win for Region 2 with a QSO count of 551, 312 Mults and a score of 171912. Dave (N3RD) came in second with a score of 136038. Allan (VK2GR) finished first in Region 3 with a QSO total of 134, a mult total of 127 and a score of 17018. Moving on to Low Power, for Region 1 Ivo (9A1AA) moved up from his second place finishes in both Session 1 and Session 2 to win Session 3 with a QSO total of 298, a mult total of 229 resulting in a score of 68242. Laci (OM5NL) finished in second with a score of 34556. For Region 2 Don (N4ZZ) claimed first place with a QSO total of 357, a mult total of 232 and a score of 82824 points. Second place went to Al (K0AD) with a score of 65340. Moving on to the QRP class, Region 1 first place was won by Stew (GW4J) with a QSO total of 135 QSOs, 110 mults and a score of 14850. For Region 2 Phil (K4PQC) came in first place with a QSO total of 161, a mult total of 117 and a score of 18837. Peter (W1UU) finished second again with a score of 17214.

Here are the details for Session 3. Plaque and Trophy winners are highlighted in **YELLOW**.

Rgn	Call	Op	QSO	Mult	Score	Power	Rgn	Call	Op	QSO	Mult	Score	Power
2	AA3B	BUD	551	312	171912	HIGH	2	K2NV	TONY	264	210	55440	HIGH
2	N3RD	DAVE	474	287	136038	HIGH	1	EA1X	JUAN	267	206	55002	HIGH
2	N1LN	BRUCE	422	279	117738	HIGH	2	N3QE	TIM	265	207	54855	HIGH
2	K7RL	MITCH	420	271	113820	HIGH	2	W5JK	STEVE	260	206	53560	HIGH
2	K3MM	TY	433	261	113013	HIGH	2	N8AA	JOHN	266	200	53200	HIGH
2	W8FJ	JOHN	408	256	104448	HIGH	2	K4BAI	JOHN	256	204	52224	HIGH
2	N5ZO	ZO	390	261	101790	HIGH	2	K3UL	BOB	258	196	50568	HIGH
2	AD4EB	JIM	378	262	99036	HIGH	1	DL5AXX	ULF	251	189	47439	HIGH
2	N5EE	KEN	365	264	96360	HIGH	2	N4BP	BOB	228	190	43320	HIGH
2	KR2Q	DOUG	387	246	95202	HIGH	1	PA3AAV	GERT	224	180	40320	HIGH
2	K8IA	BOB	350	252	88200	HIGH	2	AD5A	MIKE	227	174	39498	HIGH
2	KC7V	MIKE	338	259	87542	HIGH	2	W4WF	CHRIS	198	172	34056	HIGH
2	V26OC	BRIAN	321	257	82497	HIGH	2	K6RC	DAVE	205	164	33620	HIGH
2	KT5C	MIKE	338	244	82472	HIGH	2	N0TA	JOHN	188	176	33088	HIGH
2	K4RUM	MIKE	357	229	81753	HIGH	2	N5OT	MARK	197	166	32702	HIGH
2	KE2D	BOB	333	242	80586	HIGH	2	K5UV	MIKE	192	170	32640	HIGH
2	K7QA	TOM	337	229	77173	HIGH	2	N5RZ	GATOR	215	150	32250	HIGH
2	WG3J	ERIC	319	226	72094	HIGH	2	KV0I	BILL	201	160	32160	HIGH
2	K6NR	DANA	317	227	71959	HIGH	2	W7CXX	JACK	194	160	31040	HIGH
2	N7US	JIM	315	224	70560	HIGH	2	W8FN	RANDY	192	156	29952	HIGH
2	AB0S	TIM	319	221	70499	HIGH	1	YL2VW	AGRIS	195	152	29640	HIGH
2	N8KH	KEN	308	224	68992	HIGH	2	K0INN	TOM	186	155	28830	HIGH
2	NA8V	GREG	297	231	68607	HIGH	2	N4KS	KEN	183	156	28548	HIGH
2	KC3M	JACK	307	215	66005	HIGH	2	N3JT	JIM	195	146	28470	HIGH
2	K3MD	JOHN	304	216	65664	HIGH	2	W6SX	HANK	192	145	27840	HIGH
2	W3MA	JOHN	309	212	65508	HIGH	2	WN7S	DICK	182	142	25844	HIGH
2	W5TM	ED	303	208	63024	HIGH	2	WA4JUK	JOE	175	138	24150	HIGH
2	WA3AAN	GRANT	297	212	62964	HIGH	2	KE1B	RICH	165	138	22770	HIGH
2	K1EBY	FRANK	283	211	59713	HIGH	2	N5TJ	JEFF	160	138	22080	HIGH
2	W2GD	JOHN	288	204	58752	HIGH	1	DF5EG	JOE	143	136	19448	HIGH
1	IK3VUT	LUCA	274	206	56444	HIGH	2	KI7Y	JIM	157	123	19311	HIGH

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Rgn	Call	Op	QSO	Mult	Score	Power	Rgn	Call	Op	QSO	Mult	Score	Power
2	W1WEF	JACK	148	130	19240	HIGH	2	VA3IK	BRIAN	87	83	7221	HIGH
2	N4TTU	TOM	160	118	18880	HIGH	2	VE3CT	ART	82	81	6642	HIGH
1	F5SGI	JEAN	148	127	18796	HIGH	2	N1AU	JOHN	84	73	6132	HIGH
2	W1KM	GREG	146	121	17666	HIGH	2	N4AF	HOWIE	73	73	5329	HIGH
2	KA5M	MARSH	141	125	17625	HIGH	1	OK1OA	JIRI	74	68	5032	HIGH
2	VA3SB	SERGE	143	123	17589	HIGH	2	AD4SA	SCOTT	72	63	4536	HIGH
2	VE5MX	TODD	135	130	17550	HIGH	2	WB0RLJ	JIM	60	60	3600	HIGH
3	VK2GR	ALLAN	134	127	17018	HIGH	3	JN1THL	KEN	60	57	3420	HIGH
1	SF1Z	JENS	145	113	16385	HIGH	2	KC8J	WALT	49	47	2303	HIGH
2	N4LSJ	TOM	150	108	16200	HIGH	1	OH1ZAA	ZABA	52	44	2288	HIGH
1	SM6F	LARS	137	118	16166	HIGH	2	N4YDU	NATE	47	47	2209	HIGH
1	EA2KV	JC	134	120	16080	HIGH	2	N4KH	JIM	47	46	2162	HIGH
2	W7JET	BB	134	112	15008	HIGH	2	NS4X	BART	47	45	2115	HIGH
2	N4GO	JAY	124	115	14260	HIGH	1	SQ9MZ	HENRY	46	41	1886	HIGH
2	KY4GS	AMANDA	125	104	13000	HIGH	2	KF6NCX	LARRY	43	41	1763	HIGH
2	N3CW	ED	123	101	12423	HIGH	2	N6XI	RICK	37	36	1332	HIGH
1	MM2T	PHIL	116	105	12180	HIGH	2	N7AAE	MARTY	38	35	1330	HIGH
2	K6RB	ROB	119	96	11424	HIGH	2	K5TS	DAVE	34	34	1156	HIGH
1	EA5FID	JUAN	121	94	11374	HIGH	2	WT8P	JIM	31	31	961	HIGH
2	AF4T	DOUG	115	98	11270	HIGH	2	AB2E	DARRELL	26	26	676	HIGH
2	K1MT	DAVID	114	93	10602	HIGH	2	WA6URY	DAN	22	22	484	HIGH
2	K2GO	TOM	108	97	10476	HIGH	2	K0TQ	MIKE	19	19	361	HIGH
1	M4N	MIKE	115	91	10465	HIGH	2	K2EJ	STEVE	19	19	361	HIGH
2	N5EP	STEVE	114	87	9918	HIGH	1	HB9BJL	CHRIS	20	18	360	HIGH
2	N2RC	MIKE	108	89	9612	HIGH	3	JF1UOX	MISA	20	18	360	HIGH
2	VA1MM	AL	98	87	8526	HIGH	1	DL4ME	RON	18	18	324	HIGH
2	N5WNG	MIKE	92	91	8372	HIGH	3	JJ1FXF	HIRO	17	17	289	HIGH
2	W4RN	MIKE	90	88	7920	HIGH	3	JE1PEN	TED	13	13	169	HIGH
1	PC4H	HENK	95	81	7695	HIGH	1	UT5NC	JP	9	9	81	HIGH
2	N5UM	AL	93	82	7626	HIGH	1	RW3RN	ALEX	63	0	0	HIGH
1	OH1NA	TIMO	94	81	7614	HIGH	2	AG5ZN	BILL	0	0	0	HIGH
2	WB5N	DAVE	96	77	7392	HIGH	2	K6ACW	RAY	89	0	0	HIGH
2	AF5J	HAL	91	81	7371	HIGH	2	W0XM	BOB	45	0	0	HIGH

Rgn	Call	Op	QSO	Mult	Score	Power	Rgn	Call	Op	QSO	Mult	Score	Power
2	N4ZZ	DON	357	232	82824	LOW	2	VE3TM	VLAD	162	127	20574	LOW
1	9A1AA	IVO	298	229	68242	LOW	2	K7GS	GARY	149	136	20264	LOW
2	K0AD	AL	297	220	65340	LOW	2	VE3GFN	MIKE	156	128	19968	LOW
2	WT9U	JIM	296	219	64824	LOW	2	W3WHK	SAUL	153	124	18972	LOW
2	W1QK	DAN	290	209	60610	LOW	2	N2EY	JIM	155	114	17670	LOW
2	WJ9B	WILL	281	206	57886	LOW	2	N5GG	COLIN	143	120	17160	LOW
2	KY4ID	MIKE	269	207	55683	LOW	2	VA4ADM	PAUL	132	121	15972	LOW
2	WP4TZ	MANU	279	197	54963	LOW	2	KD2KW	KEN	144	110	15840	LOW
2	NJ3K	BRUCE	243	201	48843	LOW	1	SD6F	KLAS	141	110	15510	LOW
2	K3QP	BILL	228	184	41952	LOW	1	HB9ARF	PHIL	137	113	15481	LOW
2	AA2IL	JOE	231	165	38115	LOW	1	OZ1AAR	VILLY	132	116	15312	LOW
1	OM5NL	LACI	212	163	34556	LOW	2	VE3EJ	JOHN	131	115	15065	LOW
1	EA3FZT	FRANCIS	210	161	33810	LOW	1	G4PVM	PAUL	141	106	14946	LOW
2	WP3Z	JOE	206	158	32548	LOW	2	AC3RA	RICH	118	106	12508	LOW
2	AD8J	JOHN	190	153	29070	LOW	2	K1SM	BILL	116	107	12412	LOW
1	SP2R	DAREK	199	146	29054	LOW	2	N4DW	DAVE	122	100	12200	LOW
2	NG7M	MAX	195	145	28275	LOW	1	G3LHJ	DERRICK	122	97	11834	LOW
2	KB3AAY	RON	191	148	28268	LOW	2	KP3W	JOSE	125	93	11625	LOW
2	KV8Q	TOM	181	151	27331	LOW	2	W3UL	BILL	112	100	11200	LOW
2	W3KB	KEITH	196	137	26852	LOW	1	IK3QAR	PAOLO	116	95	11020	LOW
2	VE3MA	ALEX	174	142	24708	LOW	2	WB0TUA	DJ	108	99	10692	LOW
1	SN5J	JAN	178	129	22962	LOW	2	K2ZR	DICK	112	95	10640	LOW
1	SP1D	ROBERT	167	136	22712	LOW	2	KK0U	JIM	104	99	10296	LOW
2	N8LR	GARY	170	131	22270	LOW	1	EA4HKF	JOSE	108	95	10260	LOW
2	N3CKI	DAVE	163	133	21679	LOW	2	W2UP	BARRY	102	90	9180	LOW

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Rgn	Call	Op	QSO	Mult	Score	Power	Rgn	Call	Op	QSO	Mult	Score	Power
1	EA6EJ	INI	99	90	8910	LOW	2	W6QX	STEVE	46	44	2024	LOW
2	VA3SP	MIKE	98	90	8820	LOW	1	DL1NKB	BERND	44	42	1848	LOW
2	K8GT	GERRY	102	83	8466	LOW	2	WB8JAY	DAN	42	41	1722	LOW
3	J11RXQ	HIRO	93	91	8463	LOW	1	OK2HBR	ZDENEK	42	38	1596	LOW
2	VE9AA	MIKE	97	86	8342	LOW	2	N8DD	CHAS	39	38	1482	LOW
2	KM4FO	DWIGHT	95	87	8265	LOW	2	N9FZ	CAINAN	39	38	1482	LOW
2	W1EQ	BOB	92	88	8096	LOW	2	N4IU	PAT	40	37	1480	LOW
2	W6RIF	REED	97	83	8051	LOW	1	ZA1RR	MIRI	42	35	1470	LOW
1	M0RYB	PETER	96	83	7968	LOW	2	KT3T	PAUL	37	37	1369	LOW
2	N0AX	WARD	96	83	7968	LOW	2	AD2CC	SID	37	34	1258	LOW
2	W7LG	MIKE	89	85	7565	LOW	2	AE5EZ	OP	35	34	1190	LOW
2	K3ZA	TONY	97	76	7372	LOW	2	W0LPF	PETE	29	29	841	LOW
2	N2EIM	BOB	85	85	7225	LOW	2	AF8A	GARY	28	28	784	LOW
1	EA5KO	ANDY	91	79	7189	LOW	2	WS5D	JACK	27	27	729	LOW
1	SC6O	BEN	88	80	7040	LOW	1	F6JOE	JEAN	26	26	676	LOW
2	NV9X	JIM	92	75	6900	LOW	2	AA4NO	BILL	26	26	676	LOW
2	K9CW	DREW	88	78	6864	LOW	2	KB8GAE	RICH	24	24	576	LOW
2	K5CI	LEO	90	74	6660	LOW	2	NF8M	FRANK	23	23	529	LOW
2	WU6P	NIAN	90	72	6480	LOW	2	KF3G	SAM	22	21	462	LOW
2	K17KY	BEN	85	69	5865	LOW	1	SP7OGP	PIOTR	21	21	441	LOW
2	KK4E	DON	79	73	5767	LOW	2	WB7S	JERRY	21	20	420	LOW
2	N05W	CHUCK	76	73	5548	LOW	1	OE1TKW	HELMUT	20	20	400	LOW
2	KE4EA	DAVE	79	66	5214	LOW	2	KB4DE	BILL	20	20	400	LOW
2	K0VW	JOHN	74	65	4810	LOW	3	JH4FUF	IKKAN	20	20	400	LOW
2	KC0INP	TOM	72	65	4680	LOW	2	KB3FW	HARV	19	19	361	LOW
2	N7JI	SCOTT	72	62	4464	LOW	3	VK2IM	VLAD	17	17	289	LOW
1	HA6NL	LACI	73	60	4380	LOW	1	SF6W	GEO	16	16	256	LOW
2	N4CWZ	DAVE	63	61	3843	LOW	2	N3RTW	SEAN	16	16	256	LOW
2	N7SE	STEVE	63	58	3654	LOW	2	W6BBB	BEN	15	15	225	LOW
2	NJ4Q	WILL	62	55	3410	LOW	2	KC3NDU	KEITH	16	14	224	LOW
2	W9NXM	GUS	61	53	3233	LOW	1	G4KKU	ANDY	14	14	196	LOW
2	K4RAB	RICK	60	52	3120	LOW	1	G0SKW	KARL	12	12	144	LOW
2	N7WY	BOB	55	55	3025	LOW	1	OH2BN	JARMO	12	12	144	LOW
2	KC3SJ	STEVE	56	54	3024	LOW	3	DS1TUW	JI	12	12	144	LOW
2	N5XE	CARL	55	54	2970	LOW	3	JM8SMO	KAT	12	12	144	LOW
2	KA3DRR	SCOT	55	51	2805	LOW	2	N1GVV	ADAM	10	10	100	LOW
2	W4EE	JIM	55	50	2750	LOW	2	AC5M	SETH	9	9	81	LOW
2	VE3INE	MARY	54	50	2700	LOW	1	UA3SDN	DIMA	6	6	36	LOW
1	PA2TA	TJ	54	48	2592	LOW	1	TA3D	KADIR	5	5	25	LOW
2	AC5XK	DON	54	46	2484	LOW	2	AH7RF	HEATHER	3	3	9	LOW
2	NN7O	TOM	51	48	2448	LOW	1	PA3DZM	ERIC	45	0	0	LOW
2	KC6EOA	BRAD	51	46	2346	LOW	2	AB5XM	ALLAN	40	0	0	LOW
2	W0ABE	FIN	47	45	2115	LOW	2	N2UU	BOB	86	0	0	LOW
2	K5XU	MIKE	48	43	2064	LOW	3	VU2TUM	PUNEIT	0	0	0	LOW

Rgn	Call	Op	QSO	Mult	Score	Power	Rgn	Call	Op	QSO	Mult	Score	Power
2	K4PQC	PHIL	161	117	18837	QRP	1	PE2K	ADI	42	38	1596	QRP
2	W1UU	PETER	151	114	17214	QRP	2	N9EEE	DICK	40	37	1480	QRP
2	N5ER	JOHN	141	111	15651	QRP	2	N6HI	JOHN	27	26	702	QRP
1	GW4J	STEW	135	110	14850	QRP	2	N4NTO	TRIPP	17	17	289	QRP
2	W4CMG	CATHY	118	97	11446	QRP	1	G3WRJ	DICK	9	9	81	QRP
2	W4JM	STEVE	91	80	7280	QRP	2	K7KER	KAT	9	9	81	QRP
2	W9TD	GARY	64	61	3904	QRP	2	W7AQB	JARED	7	7	49	QRP
2	AB7MP	MARK	44	39	1716	QRP	1	EA5XQ	JUAN	1	1	1	QRP

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Team Scores

Putting together a team to participate in the CW Open is always a fun way to increase participation and friendly intra and inter team competition. However, the 2024 CW Open proved to be a challenging year for team entries also. This year we had 16 teams register, down from 24 in 2023. The team sizes ranged from a minimum of 2 members up to the maximum allowed of 10 members. All Regions had team member representation. The team total scores followed the 2024 CW Open overall statistics and dropped some. Even with the overall drop in scores, there were a few good horse races as you will see below. The FRC once again put forward the first-place team. Team Proficiency's 10 member team came in first place and was the only team scoring over 2m points with an impressive 2,147,112 total. Deep Dixie CC Team Elvis came in second with a score of 1,855,780. The Geezers came in third with a score of 1,049,345.

Here are the detail scores and team finishes:

FRC Team Proficiency

Call	Session 1	Session 2	Session 3	Total
1 AA3B	149,758	174,667	171,912	496,337
2 AB2E	1,936	2,805	676	5,417
3 K3UL	49,280	61,692	50,568	161,540
4 N2EY	21,294	12,375	17,670	51,339
5 N3RD	104,810	116,164	136,038	357,012
6 W2GD	87,418	73,260	58,752	219,430
7 W3MA	52,152	61,509	65,508	179,169
8 W8FJ	114,466	103,987	104,448	322,901
9 WA3AAN	64,350	52,824	62,964	180,138
10 WG3J	66,665	35,070	72,094	173,829
	712,129	694,353	740,630	2,147,112

Deep Dixie CC Team Elvis

Call	Session 1	Session 2	Session 3	Total
1 N5EE	92,920	-	96,360	189,280
2 AB0S	80,464	70,077	70,499	221,040
3 K4BAI	87,928	60,690	52,224	200,842
4 K7RL	110,322	-	113,820	224,142
5 KU8E	66,044	64,050	-	130,094
6 N4BP	17,640	63,654	43,320	124,614
7 N7US	91,686	68,160	70,560	230,406
8 N8AA	65,073	28,798	53,200	147,071
9 W4WF	80,550	76,890	34,056	191,496
10 W5TM	74,134	59,637	63,024	196,795
	766,761	491,956	597,063	1,855,780

Geezers

Call	Session 1	Session 2	Session 3	Total
1 N3JT	42,303	52,852	28,470	123,625
2 DK9PY	73,851	-	-	73,851
3 OK1RR	-	-	-	-
4 KR2Q	81,618	79,430	95,202	256,250
5 ZF2VE	53,487	85,089	-	138,576
6 N5OT	58,058	28,855	32,702	119,615
7 N1LN	104,786	114,904	117,738	337,428
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
	414,103	361,130	274,112	1,049,345

AOCC Scoundrels

Call	Session 1	Session 2	Session 3	Total
1 K8IA	92,092	113,360	88,200	293,652
2 W7CXX	54,978	9,030	31,040	95,048
3 KJ5T	2,744	-	-	2,744
4 W7JET	-	25,418	15,008	40,426
5 N4ZZ	841	82,015	82,824	165,680
6 KC7V	85,239	87,840	87,542	260,621
7 KH7X	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
	235,894	317,663	304,614	858,171

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DFW Contest Group

Call	Session 1	Session 2	Session 3	Total
1 NM5M	87,849	85,196	-	173,045
2 KT5C	83,424	77,454	82,472	243,350
3 W5JK	1,225	27,740	53,560	82,525
4 W8OV	-	-	-	-
5 KT5V	-	-	-	-
6 N5WNG	-	2,162	8,372	10,534
7 WB5N	3,953	-	7,392	11,345
8 KI5PGL	-	-	-	-
9 K5CI	-	-	6,660	6,660
10 N5RZ	116,127	140,165	32,250	288,542
	292,578	332,717	190,706	816,001

Deep Dixie CC Team Firebi

Call	Session 1	Session 2	Session 3	Total
1 NN5O	-	-	-	-
2 AD2CC	3,953	2,940	1,258	8,151
3 IT9VDQ	-	4,736	-	4,736
4 K5TS	11,328	29,722	1,156	42,206
5 K5XU	17,160	4,650	2,064	23,874
6 KV0I	44,422	34,069	32,160	110,651
7 N0TA	80,727	67,014	33,088	180,829
8 N8LR	26,574	15,696	22,270	64,540
9	-	-	-	-
10	-	-	-	-
	184,164	158,827	91,996	434,987

FRC Team Competency

Call	Session 1	Session 2	Session 3	Total
1 NF3R	15,540	-	-	15,540
2 K3HW	-	2,695	-	2,695
3 K3MD	69,510	24,684	65,664	159,858
4 K3QP	55,275	21,252	41,952	118,479
5 N2NC	-	-	-	-
6 N2RC	40,304	29,962	9,612	79,878
7 W3WHK	22,444	-	18,972	41,416
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
	203,073	78,593	136,200	417,866

DitSchnitzels

Call	Session 1	Session 2	Session 3	Total
1 KK0U	47,260	45,880	10,296	103,436
2 N9BSO	-	-	-	-
3 WT9U	71,556	63,640	64,824	200,020
4 WB0TUA	-	-	10,692	10,692
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
	118,816	109,520	85,812	314,148

Brass Flounders

Call	Session 1	Session 2	Session 3	Total
1 AA2IL	54,760	-	38,115	92,875
2 NN7O	4,575	2,200	2,448	9,223
3 N5GG	20,068	3,248	17,160	40,476
4 N3RTW	12,288	-	256	12,544
5 KC6EOA	5,695	16	2,346	8,057
6 N7AAE	3,016	2,538	1,330	6,884
7 N7AUE	-	-	-	-
8 WB0RLJ	3,658	11,025	3,600	18,283
9 AG5ZN	9	49	-	58
10 VA4ADM	3,596	-	15,972	19,568
	107,665	19,076	81,227	207,968

MightyMitesQRP

Call	Session 1	Session 2	Session 3	Total
1 N9EEE	1,554	1,763	1,480	4,797
2 W4CMG	12,222	2,950	11,446	26,618
3 G0DJA	-	1	-	1
4 W9TD	22,605	18,126	3,904	44,635
5 W7AQB	-	144	49	193
6 N0MII	-	4,158	-	4,158
7 K7KER	36	25	81	142
8 AB7MP	3,350	616	1,716	5,682
9 W1UU	13,365	14,552	17,214	45,131
10 GW4J	5,964	8,217	14,850	29,031
	59,096	50,552	50,740	160,388

Willamette Valley Code Jo

Call	Session 1	Session 2	Session 3	Total
1 N7JI	-	986	4,464	5,450
2 KI7Y	48,720	17,227	19,311	85,258
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
	48,720	18,213	23,775	90,708

QBL

Call	Session 1	Session 2	Session 3	Total
1 AD4SA	33,488	4,736	4,536	42,760
2 N1GVV	342	2,856	100	3,298
3 KQ1O	72	-	-	72
4 N9FZ	29,346	8,428	1,482	39,256
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
	63,248	16,020	6,118	85,386

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Utah Contest Club

Call	Session 1	Session 2	Session 3	Total
1 KI7KY	10,416	27,072	5,865	43,353
2 NG7M	-	5,538	28,275	33,813
3 K7CO	-	-	-	-
4 KI7QCF	-	-	-	-
5 W7CT	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
	10,416	32,610	34,140	77,166

Team UK

Call	Session 1	Session 2	Session 3	Total
1 G4PVM	-	20,790	14,946	35,736
2 M4N	-	14,552	10,465	25,017
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
	-	35,342	25,411	60,753

Blue Ridge Bums

Call	Session 1	Session 2	Session 3	Total
1 K2GO	1,978	22,260	10,476	34,714
2 W4RN	12,544	5,214	7,920	25,678
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
	14,522	27,474	18,396	60,392

Team Asia

Call	Session 1	Session 2	Session 3	Total
1 JN1THL	552	5,372	3,420	9,344
2 DS1TUW	-	2,860	144	3,004
3 WA6URY	18,500	9,180	484	28,164
4 JH4FUF	121	196	400	717
5 JE1PEN	81	-	169	250
6 JG1UQD	1	-	-	1
7 JS2IMR	64	-	-	64
8 JF1UOX	9	-	360	369
9	-	-	-	-
10	-	-	-	-
	19,328	17,608	4,977	41,913



Trophies and Plaques:

Below is a listing of the 2024 Trophy and Plaque winners. As in the past, should the same individual qualify for more than one award, the awards will be grouped on one Trophy or Plaque.

Trophies: High Score, each session, each ITU Region

Armin Sturm, DK9PY

Session 1, ITU Region 1, HP Winner

309 QSOs, 239 Multipliers

73851 points

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Gert Meinen, PA3AAV Session 2, ITU Region 1, HP Winner 198 QSOs, 155 Multipliers	30690 points
Luca Ramello, IK3VUT Session 3, ITU Region 1, HP Winner 274 QSOs 206 Multipliers	56444 points
Ivo Novak, 9A1AA Combined Scores, ITU Region 1 Winner 728 QSOs 560 Multipliers	139711 points
Session 1, ITU Region 2, LP 199 QSOs 156 Multipliers	31044 points
Session 2, ITU Region 1, LP 231 QSOs 175 Multipliers	40425 points
Session 3, ITU Region 1, LP Winner 298 QSOs 229 Multipliers	68242 points
Bud Trench, AA3B Combined Scores, ITU Region 2 Winner 1665 QSOs 895 Multipliers	469337 points
Session 1, ITU Region 2, HP Winner 563 QSOs 266 Multipliers	149758 points
Session 2, ITU Region 2, HP Winner 551 QSOs 317 Multipliers	174667 points
Session 3, ITU Region 2, HP Winner 551 QSOs 312 Multipliers	171912 points
Hiroyuki Ueno, JI1RXQ Session 2, ITU Region 3 LP Winner 104 QSOs 82 Multipliers	8258 points
Allan Mason, VK2GR Session 3, ITU Region 3 HP Winner 134 QSOs 127 Multipliers	17018 points

Plaques: High Score, All power levels (HP, LP, QRP), each session, each ITU Region

High Power –

Armin Sturm, DK9PY Session 1, ITU Region 1, HP Winner 309 QSOs, 239 Multipliers	73851 points
Gert Meinen, PA3AAV Session 2, ITU Region 1, HP Winner 198 QSOs, 155 Multipliers	30690 points
Luca Ramello, IK3VUT	

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Session 3, ITU Region 1, HP Winner 274 QSOs 206 Multipliers	56444 points
Bud Trench, AA3B	
Session 1, ITU Region 2, HP Winner 563 QSOs 266 Multipliers	149758 points
Session 2, ITU Region 2, HP Winner 551 QSOs 317 Multipliers	174667 points
Session 3, ITU Region 2, HP Winner 551 QSOs 312 Multipliers	171912 points
Allan Mason, VK2GR	
Session 3, ITU Region 3 HP Winner 134 QSOs 127 Multipliers	17018 points

Low Power -

Robert Helminiak, SP1D	
Session 1, ITU Region 1, LP Winner 216 QSOs 159 Multipliers	34344 points
Session 2, ITU Region 1, LP Winner 281 QSOs 214 Multipliers	60134 points
Ivo Novak, 9A1AA	
Session 3, ITU Region 1, LP Winner 298 QSOs 229 Multipliers	68242 points
Eric Silverthorn, NM5M	
Session 1, ITU Region 2, LP Winner 387 QSOs 227 Multipliers	87849 points
Session 2, ITU Region 2, LP Winner 361 QSOs 236 Multipliers	85196 points
Don Binkley, N4ZZ	
Session 3, ITU Region 2, LP Winner 357 QSOs 232 Multipliers	82824 points
Hiroyuki Ueno, JI1RXQ	
Session 2, ITU Region 3, LP Winner 104 QSOs 82 Multipliers	8528 points

QRP -

Gary Kaatz, W9TD	
Session 1, ITU Region 2, QRP Winner 165 QSOs 137 Multipliers	22605 points
Session 2, ITU Region 2, QRP Winner 159 QSOs 114 Multipliers	18126 points

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Phil Specht, K4PQC Session 3, ITU Region 2, QRP Winner 161 QSOs 117 Multipliers	18837 points
Ado Rimenas, LY2F Session 2, ITU Region 1, QRP Winner 117 QSOs 87 Multipliers	10179 Points
Stew Rolfe, GW4J Session 3, ITU Region 1, QRP Winner 135 QSOs 110 Multipliers	14850 Points

In summary: A BIG CONGRATULATIONS to the winners of trophies and plaques in the 2024 CW Open. Thanks to all the participants in the 2024 sessions, both CWops members and non-members. Hopefully everyone agrees with me that this was another great way to spend a few hours on the bands, talking to friends and perhaps making a few new ones. I would like to thank Rob, K6RB, for the outstandingly quick turnaround of the log processing and checking. I would also like to thank the regional communications volunteers that helped me get the message out there. Listed by region: Region 1; Bert (F6HKA) and Roger (G3LDI) Region 2; Kat (K7KER).

Even with the challenging year, we have the opportunity to recognize a few members for their results. I have been the CW Open Manager since 2017. In all previous years the High Consolidated Score trophy was won by HIGH POWER entries, regardless of the region. Well, this year in Region 1, Ivo (9A1AA), scored the highest consolidated score for the sum of the three sessions and he was running LOW POWER. Well done Ivo! In the QRP class, I had to go back to 2011 to find an award winner outside of Region 2 and based on the 100 QSO minimum. This year we had two from Region 1. A big WELL DONE to Ado (LY2F) in Session 2 and Stew (GW4J) in Session 3! There is one more first and this one goes to a complete team with members in both Region 1 and Region 2. The Mighty Mites QRP is the first ever 10 member team and all running QRP. They did quite well and earned three awards and two plaques!

Finally, as we all start looking toward the 2025 CW Open I will need some help and suggestions how to address the decreasing participation trend. This year the CWO and NA Sprint fell on the same weekend. This does not happen every year, but when it does it could impact participation in Session 3, and perhaps other Sessions. Ward Silver (N0AX) the NA CW Sprint Manager, and I have worked out a scheduling agreement for future years to insure that won't happen again. The current CWO schedule will not be impacted until 2030.

Until then let's all work together to reverse the trend and make the 2025 activity graphs reflect the change to an upward slope! Based on the September 2025 calendar, the CWO will be held on September 6, so time to mark your calendars and keep the date and times open!

Thanks for participating and I will see you on the bands and in the weekly CWTs.

73, **Bruce, N1LN**, CW Open Manager

The MightyMitesQRP Team

[Dick Strassburger](#), N9EEE CWops #3113

Operating QRP isn't just a matter of turning down the power on a full power transceiver; it's an eco-system in which operating style and skill is finely tuned and matched with a QRP-featured radio and highly effective antenna system. QRP operators aren't small geek-like gnomes compared to the average CW op...we're just very purposeful, a little quieter, and thrive off constantly challenging situations. Perseverance and Persistence is our motto. So how does a QRP station approach contesting? Only if they see a path to success, whether that success is measured by the contest sponsor or more likely the goals the operator has set for themself.

I've worked two CW Opens, one with Team Wiskeys – get it, Wisconsin...keys? And one solo. I wanted to get back into the CW Open but with a purpose, and because Bruce N1LN the coordinator for the event works hard to make it a fun event for members of CWops. Since I consider myself a "light" contester, the idea of three four-hour sprints seemed appealing and fit well with my need to be flexible with my schedule for other family and outdoor activities that time of the year. But QRP alone didn't sound too appealing. I did it once and felt a bit deflated. I need a team. Hey, what if we had a team of QRP-only members? Has this been done before? Can a team of QRP operators show the world that we can stand on our own in a contest dominated by power and award-level stations? We'd be a bunch of S1 operators wading through a sea of S20+ signals. Are there 10 QRP operators in CWops that would be interested in doing this knowing there are no awards for teams?

Anyone who knows me knows that it only takes a spark for my brain to go into overdrive and generate a movement. And it only takes the hint of a challenge to get the interest of a QRP operator.

Organization is another strong trait of mine, which starts with identifying the premise for our team...to show the world that a team of QRP operators can hold their own in a contest. However, QRP ops are big on personal achievement and self-satisfaction, so we'd need to acknowledge this, too. Perhaps making history as the first all-QRP team would suffice. Power-wise we're not big, but our operating skills would make us strong, thus MightyMitesQRP came into focus as our team name.

My first litmus test was Stew GWØETF who wrote an article on [Flea Power Contesting](#) for *Solid Copy* in August. Surely this would be up his alley...he couldn't have agreed more enthusiastically. Next was assembling a list of eight other QRP operators gleaned from past CWTs listed on 3830scores.com and a query on our Groups.io reflector. It didn't take long to fill the eight remaining slots; we now have a 10-member team.

It came together rather quickly prior to the contest, so we didn't pursue team planning or strategy. What I stressed to our team members is that this first entry into the CW Open, we're in it to have fun. Contribute what you can, in terms of hours, but relax and enjoy the ride. Let's just have a presence and show the world what QRP can do.

Our team was comprised of a couple of known testers, a known QRP superstation, a few first-

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timers, and a few “radio and a wire” QRPers. One in the group was planning to activate POTA in a nearby park. My only strategic advice to the team was “rely on your QRP essence...QRPers are patient, flexible, adaptable, resilient, resourceful, and persevere in the face of frustration or adversity. Depending on your station and location, a radio and wire may be better suited for Search and Pounce, while a radio and Yagi may be a magnet for Running. Teams do not receive awards and trophies but instead earn bragging rights and also acknowledgement in *Solid Copy* when teams are listed with their members. Our bragging rights will hopefully be “see what QRP can do.”

The result? We indeed all had fun in our own unique ways. Looking at each score individually reveals the unique approach of each operator in this year's CW Open. Individually, two members won three plaques in their categories. Congratulations to Stew Rolfe, GW4J, and Gary Kaatz, W9TD, who took honors in the QRP award category. And congratulations to the entire team for making history – **the first 10-member all-QRP team in the CW Open.**

The Team:

Cathy Goodrich, W4CMG

Dave Ackrill, GØDJA

Dick Strassburger, N9EEE

Gary Kaatz, W9TD

Jared Corgan, W7AQB

Jeff Logullo, NØMII

Kat Kerns, K7KER

Mark Danner, AB7MP

Peter Butler, W1UU

Stew Rolfe, GWØETF operating as GW4J



Station Profile and Comments from some of the MightyMitesQRP Team.

Dick, N9EEE #3113:

Rig: IC-705 at 5 watts

Antenna: End Fed Half Wave sloper up to 30 feet

Feedline: ABR 240 - 125 feet

Key: Bencher BY-1

Keyboard: logged on paper and transferred to N3FJP contest log later

Location: nearby park for two sprints, at home for the third.

Grid sq: EN53

Comments: Search and Pounce 100%. My third CW Open, and favorite

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Jeff, N0MII #3466

Rig: Yaesu FTDX10

Maximum Power Used in CW Open: 5W

Antenna: Aerial-51 Model 404-UL (off-center-fed dipole for 40-20-15-10)

Feed line: RG-174 U + RG-8X

Key(s): Begali Expedition paddles

Keyboard: used for logging (N1MM+)

Location during CW Open (city, S/P/C): Ballwin MO

Grid square during CW Open: EM48rn

Comments: This was my first CW Open. Although I was only able to operate one of the three sessions, I had a great time! Glad to have participated as one of the MightyMites QRP team :-)

Dave, G0DJA #266

Rig: Icom IC-7300

Maximum Power Used in CW Open: 5W

Antenna: (detailed): Base loaded vertical, Slidewinder coil, 2.85m vertical against radials

Key(s): Kent paddles

Keyboard: Logged on paper and entered into VQlog later

Location during CW Open (city, S/P/C): UK, Bolsover

Grid square during CW Open: IO93IF

I made one contact on 40M with another UK station who was not in Zombies nor taking part in the activity. I tried other bands with no replies.

Gary, W9TD #2998 (picture)

Rig: I was planning on using my QRPLabs QMX (seen on table by upper keyboard) but decided to use the 7610 with its power reduced to 5 Watts or less because the QMX doesn't cover 15 or 10 meters. In any case, the 7610 receiver is easier to listen to than the QMX.

Antenna: fan dipole in the attic with a remote auto tuner to minimize feedline loss

Comments: I did 100% search and pounce. I was pleasantly surprised at the number of times the runner came back to me on the first call. Of course it was no surprise that I never made it when there was more than one caller. I needed to wait until it was clear. I even had a some DX contacts in Australia, Europe and the Caribbean. I encountered a difficult OP, three times, who had trouble hearing me and ended the QSO with "QRO lid". No patience for QRP and not a CWOPs member either. In the end, I only worked one other MightyMitesQRP team member.



GW4J Plaque



W9TD

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Stew, GWØETF

Contest call sign: GW4j:

Rig: K3/P3 @5 watts

Antennas: Hexbeam 10/15/20 on a 30ft pole fed by 50m of LDF4-50, 40m single 1/4wave vertical, 80m dipole at 14m, 160m zilch unfortunately

Key: Keyboard with DXlog, Begali Sculpture Mono panic fallback

Operated from home (QTHR loc IO73wf)

Cathy, W4CMG #2988

My Station: Yaesu FT 857D, with power dialed back to 5 Watts. G5RV up 35 feet, pointing Northeast/Southwest from Nashville, TN.

Technology: Logging: N1MM Logger+ including Entry, Logging, Checklog, Winkeyer/function keys, Telnet, Bandmap, Info, Available Mults windows; N3ZN OTO key for fills and Farnsworth and the “usual” support windows ready for use (QRZ.com, CW Club RBN Spotter, Reverse Beacon Network). With everything, there is strategic placing of the windows to fill up two screens.

Observations and Lessons Learned:

- I was pleasantly surprised to have a few EU stations added to the log across the sessions, including Australia, Latvia, Spain, Italy and Germany.
- Goals when running as a QRP station are different – and “doubling my last scores” became “meet or beat the last QRO scores” right from the beginning. The “realistic” and “achievable” part of SMART Goals became the smartest approach Note: Now that there is a QRP baseline the target goal will change.
- Following Dick’s and Stew’s pre-event advice made a BIG difference in how approached working the event.
- I still prefer running but there are advantages to S&P when operating QRP. Moving on after trying a second – or with QRP, third is critical. One can usually go back and find the pileup they were part of has lessened. Don’t let that “stubborn streak” kick in!
- Looking at the bandmap and finding the busiest frequency showed me where to go.
- Knowing when to switch bands is very important – and trying to “get that one more” isn’t worth it. Move on for the mults!
- Is my rate increasing, decreasing, or staying the same? Watch various tools and act upon them.

Thanks Cathy...good stuff.

Thanks to all of you with great ears who heard our QRP signals and were patient enough to make the exchange. We may not have had power, but we did have propagation that enhanced our signals and the skills to weave our way into the logbooks and score points in the contest. And that’s all that’s necessary. Look for us in the next CW Open in 2025.

--72--

Nomination for Member Process (Pt 2)

Jim Talens, N3JT CWops #1

Here is how the status page works. (See [Shareable Nominees & Invitees Status - Google Sheets](#) or navigate to the status sheet yourself.)

Nominations and sponsorship forms are received by W6TN and N3JT (and maybe a few others) when the applicable form is submitted by the sponsor/nominator.

1. W6TN maintains the status page (as well as the overall club database). That means he updates the status page in response to the incoming sponsorship forms. Trung has been unquestionably diligent and dedicated for years in handling this task. He earns every penny he is paid (just like all the folks who keep the club rolling along!).
2. Once I see 4 or more sponsors, I issue an invitation email to the nominee. That may take a few days, or as little as minutes, depending on when I get to it.
3. A copy of the invitation email is sent to, among others, W6TN. He then moves the sponsor list from the top section of the status page to the bottom.
4. We now wait for the nominee to complete the membership signup form and submit dues. That can take minutes or months. I usually ping anybody who seems dilatory. Sometimes we have an erroneous email address for the nominee, requiring research. Sometimes the emails bounce and I have to send the invitation again using a different outgoing email address (not n3jt@cwops.org, which I generally use for club business.)
5. During this waiting period there is the occasional late-filed sponsorship, meaning it arrives after the invitation email has been sent to the nominee.
6. We have been asked, "Why did I not get a copy of the invitation email for the operator I sponsored?" Answer: Sometimes I will send a copy of the invitation to that person, but most times it's just too late. If the late-filing sponsor wishes, s/he can always drop an email to the new member noting that s/he sponsored the membership but missed being included in the list of sponsors appearing in the invitation email.

Over the last week or so there have been many "delayed delivery" or "bounced" emails to sponsors/new members. Nobody seems to know why, other than that AOL in particular is having a problem accepting emails from any cwops.org address. Figuring that out is above my pay grade.

I thought you might want to know how all this works. Overall, this system works rather well given we are closing in on 3,000 current members. Gee, imagine if half of those were active in a CWT!

73, Jim



New Members

Trung Nguyen, W6TN

With great pleasure we welcome the following new members to CWops:

<u>CWops</u>	<u>Call</u>	<u>Name</u>	<u>CWops</u>	<u>Call</u>	<u>Name</u>	<u>CWops</u>	<u>Call</u>	<u>Name</u>
3610	KM6ZX*	Brian	3621	G5HOW*	Gavin	3632	JA8RUZ	Toshi
3611	N1IA	Scott	3622	N3PP	Paul	3633	VE6SV*	Gord
3612	N4PF	Mike	3623	W6TLS*	Terry	3634	N5SGQ*	Dale
3613	EA1CBX	Jose	3624	W5MOT*	Dan	3635	K2MEU*	John
3614	AJ6V*	Ed	3625	DK3RN*	Peter	3636	KI7QCF*	Forrest
3615	KF7UFF*	Ben	3626	W8UY*	Terry	3637	K7CO*	Jon
3616	W6IZT	Greg	3627	KO4OWS*	David	3638	KQ4DFV*	Mike
3617	G0POT*	Mike	3628	AE6Z*	Chris/CW	3639	SV8SWF*	Kostas
3618	G5NLD*	Dennis	3629	CE3FJK*	Fer	3640	W1RBG*	Rose
3619	K1FJG*	Jay	3630	KB3MDD*	Prasad	3641	W0ZB*	Steve
3620	HB9HKN	Matej	3631	W7WHO*	Dennis	3642	WN7JT*	Gabe

* Lifetime member

As of November 8 2024:

Need Sponsors: KE2BRV, AE7EF, KI4AMD, N3FEL

Invitations Extended: K2EJT

For more details about nominees and up-to-date status, check the ["Members only"](#) page on the website. For information about joining CWops, check the ["Membership"](#) page on the website.

Notes: If you have updated your personal info, e.g., new QTH, new callsign, or additional callsign, please send it to membership@cwops.org so I can add it to the roster. Vice versa, if your callsign becomes inactive I can remove it, too. Then the roster will be accurate and current for our usage.

73, Trung W6TN (CWops #1707) Membership Manager

Did your **CALL SIGN** change recently?

Did you move to a **NEW ADDRESS** or change your **NAME** ?

Congratulations!

Help us keep our **DATABASE UP-TO-DATE**

Click [HERE](#) to update your contact information.

Giving Back Update

[Rob Brownstein](#), **K6RB** (CWops #3)

CWops' Giving Back (GB) program is meant to provide on-air QSO experience and practice for anyone who wants it. It was initially intended as a way for our CW Academy students to get some on-air experience. We all know that when there is activity on the bands, these days, it's usually a DXpedition pileup or a contest. Today's CW aspirants have had little chance to work others who are skilled at CW, operate at moderate speed, and are committed to helping. That's the mission of Giving Back. The GB volunteers get on the air at approximately 7 pm local time and seek out CQers, or call CQ, and engage in routine QSOs including some conversational tidbits. The operators' schedule appears on the next page.

Here are the October results (GB hosts are shown in **bold**):

AA0YY	K0LRQ (2) WB5UTM (2)	K3WWP W3USR	W2CW AF4PX	WB4AUL W0ITT	VE3IIM K9HIM	N8DKH	K1PUG
GW2CWO	RA6AGR G0GUF	EU1AFR	OZ8AAH	G0KWD	PA0HTT	IK1UGX	DL8ZAD
JG1UQD	JL2SQK	JK1WCW	JN1OCN				
JJ1FXF	JS2OVO JA4MRL	JA4IJJ(3) JS2AHG	JK1WCW	JS1CII	JE1LGY	JL2SQK	JG1BGT
JK1QYL	JG1BGT(7) JK1WCW JS2OVO	JE1FMZ JA8CXM JS3MQC	JN7DOR JA4IJJ(2) R0LJC	JR7WIS JL2SQK(2) JO1UFB	JE1AGV JR6SBI(2) KE7LOY	JP7REZ JA5FGC	JE3AXU JJ0SFV
JO1DGE	JA5FGC JK2IMG JS2OVO	JA6BZH(2) JL2SQK	JE1FMZ JN1FAO(2)	JE3VRF JP3TWV	JG1BGT(6) JQ3FRX	JJ0SFV(2) JR6SBI	JK1WCW JR7WIS
JO1ZZZ/1	HL5JZ JN1FAO	JA6BZH JR1CPB	JF7URV KE7LOY	JG1BGT	JG7AJE	JJ1FXF	JJ3LXM
K6RB	K6KWV	W6KN	VE7BGJ (2)	KN6QER	VY1CO	KE7LOY	WN7JT
K7NJ	NV5P K5RIX	K1DW	N2KW	KI5JG	KU7O	KA2BKG	KP4PUA
K8UDH	WA1HGJ						
M0WDD	2E0JKQ G3MCK M0TJU YO6ZS	EC1CNW G3ZIK M3ZHI	EU1KY GM0GHN M7GNO	F4IEH LX1KL OK1HCG	G0EHG LZ3DP ON3JMM	G0WED/A M0IYP PA0MBO	G3IDY M0KCJ SP3DGV
W2XS	WQ9H	VE3SIF	N6WWW				
W5DT	AC8RG	N8AI	KC3GTX	WA3ZKI	AA2YO	NR8M	
7N2XZB	DS4HPW JL2SQK	JK1WCW(2) JJ5MKY	JN1MET JH5BXO	JQ3FRX JG1BGT	JA4IJJ JA8CXM	JS1CII JO1UFB	JJ0SFV HL1MIM

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Giving Back Operating Schedule - 7 PM Local												
October - April: 40m & 80m May - September: 40m & 20m												
Frequencies: 7.035 - 7.039, 3.535 - 3.539, 14.035 - 14.039 MHz JA - 7.028 +/-												
UTC+11	UTC+9	UTC+7	UTC+3	UTC+2	UTC+1	UTC/BST	UTC-1	EDT UTC-5	CDT UTC-6	MDT UTC-7	PDT UTC-8	Hawaii UTC-10
MON												
VK1CWO	JØ1DGE							W2XS	AAØYY			
TUE												
	JR1WYW	E25JRP		SV2BBK		GW2CWO		WE5P	K8UDH	K7NJ	W7ZDX	
	7N2XZB										K6RB	
WED												
								N8DD				
THURS												
	JJ1VNV			SV2BBK				KV8Q	N5OT	K7NJ	W7ZDX	
FRI												
	JK1QYL			SV2BBK		GW2CWO MØWDD		N2GSL	AAØYY		K6RB	
SAT												
	JJ1FXF							W5DT				
	JM4AOA JG1UQD											
SUN												
	JJ1FXF							W5DT				
	JM4AOA											



CW Academy

[Bob Carter, WR7Q](#) and [Roland Smith, K7OJL](#)

It is nice to get exposure from other entities besides CW Ops and especially nice when it comes from an international organization. We received this recent article from the Cray Valley Radio Society of UK. A few of our CW Academy students are members of this group and had some nice things to say about us.

Cray Valley Radio Society's year of CW

Feature



PHOTO 1: Cray Valley member Dom Ransome, M0AIO taking part in an online CW Academy course.

Like many groups reporting in *RadCom*, Cray Valley Radio Society (CVRS) is a group with members involved in almost every aspect of the hobby.

We are blessed with an active and large membership, combined with a well-appointed HQ, plus a good central location in Eltham, southeast London. However, one day in late 2023, during a casual conversation between a group of us, it became clear that we had no idea how many of our members were proficient in using Morse code. We didn't know how many were actively using it, were interested, or were likely to be interested, in learning the code. There was no clear strategy about what we should do to nurture CW.

I set about investigating the situation by first informally gathering the thoughts and opinions of members and radio contacts. We already had several experienced CW contesters at CVRS whose CW prowess is a sight to behold. I remember once having a conversation with our highly CW proficient Chairman Dave Lawley, G4BUO who, at the same time was rattling off a QSO easily at 25wpm! I wondered how he did this. Did he have two brains? I struggled to get to 12wpm back in 1982 when I took the test at a Post Office maritime Morse test centre in New Fetter Lane, Central London.

A few years ago, CVRS ran its first and only CW Boot Camp. Sadly, out of the twenty or so who went along, only two are still actively using CW. Some gave up immediately as speeds got faster. When you ask someone who has already learned Morse code how they did it answers are wide ranging. Examples include: string a key and buzzer between two rooms, teach yourself, start slow, start fast, only use a straight key, only use a paddle, send first, listen first etc... the list goes on. It is evident that people learn CW differently and at different paces. CVRS needed a way forward.

In the hobby, there are many organisations with fabulous CW expertise, all doing a grand job at promoting and nurturing the mode. These include: FISTS CW Club, The Essex CW Amateur Radio Club and The First Class CW Operators Club (apologies to those not mentioned). Many local groups run on-air or online CW sessions on a regular basis, for all levels of operating speed. There are also some fabulous electronic CW tutor/oscillators available to help all types of learner (see Kanga Product for some good examples) and smartphone CW apps abound. The RSGB can even test your speed and award you a certificate for free. One of my local clubs, Thurrock Acorns ARC, kindly allowed me to watch one of its online training sessions. We looked

at everything to try and find the best way forward. For self-directed learners and improvers there are also many useful on-air, regular slow Morse transmissions (see the RSGB and ARRL schedules). One of the best lists of CW resources is on the FISTS CW Club's website. We decided it was important to affiliate CVRS to FISTS.

CVRS decided to survey its 150 members, with an online questionnaire,

to investigate the overall level of CW interest, existing activity, current speeds and type of key owned. A few things emerged clearly: Only 20% of members responded (indicating an overall lower level of CW interest than we had expected), 50% of the respondents had already learned CW informally (probably self-taught), 70% used straight keys rather than a paddle, 50% of applicants were currently proficient at about 12wpm. However, the most interesting findings were that 67% wanted to learn or improve their CW and over 60% wanted to learn in a formal/structured way.

With these findings as our guidance, and having considered all other teaching options, the CVRS committee backed connecting up with the very successful CW Academy run by CWops. This international organisation teaches CW at all levels, using great online tutors who teach in a very logical and inspiring way. The courses are free and run three times annually. The CWops website (cwops.org) is well worth a look, especially in terms of its comprehensive resources list. Ten of our members are now registered and attending a CW Academy course.



PHOTO 2: CVRS Morse keyer, oscillator and tutor.

The Year of CW

Cray Valley has declared 2024/25 its 'Year of CW' and has initiated other activities to support the campaign. Two great construction projects were conceived by Dav Walters, M0WDF who leads all the CVRS construction activities. Over 20 members have built a Morse tutor and/or a Morse keyer/oscillator. As part of our CW push, and the RSGB's National Coding Week, our coding project is being led by Jakub Kowalski, M0KUK. Club members will be creating a simple Morse keyer and a Morse game to help them to learn CW and/or also to use a rig keyer.

Dave Shaw, G4NOW
Cray Valley Radio Society Publicity Officer
d_shaw@compuserve.com

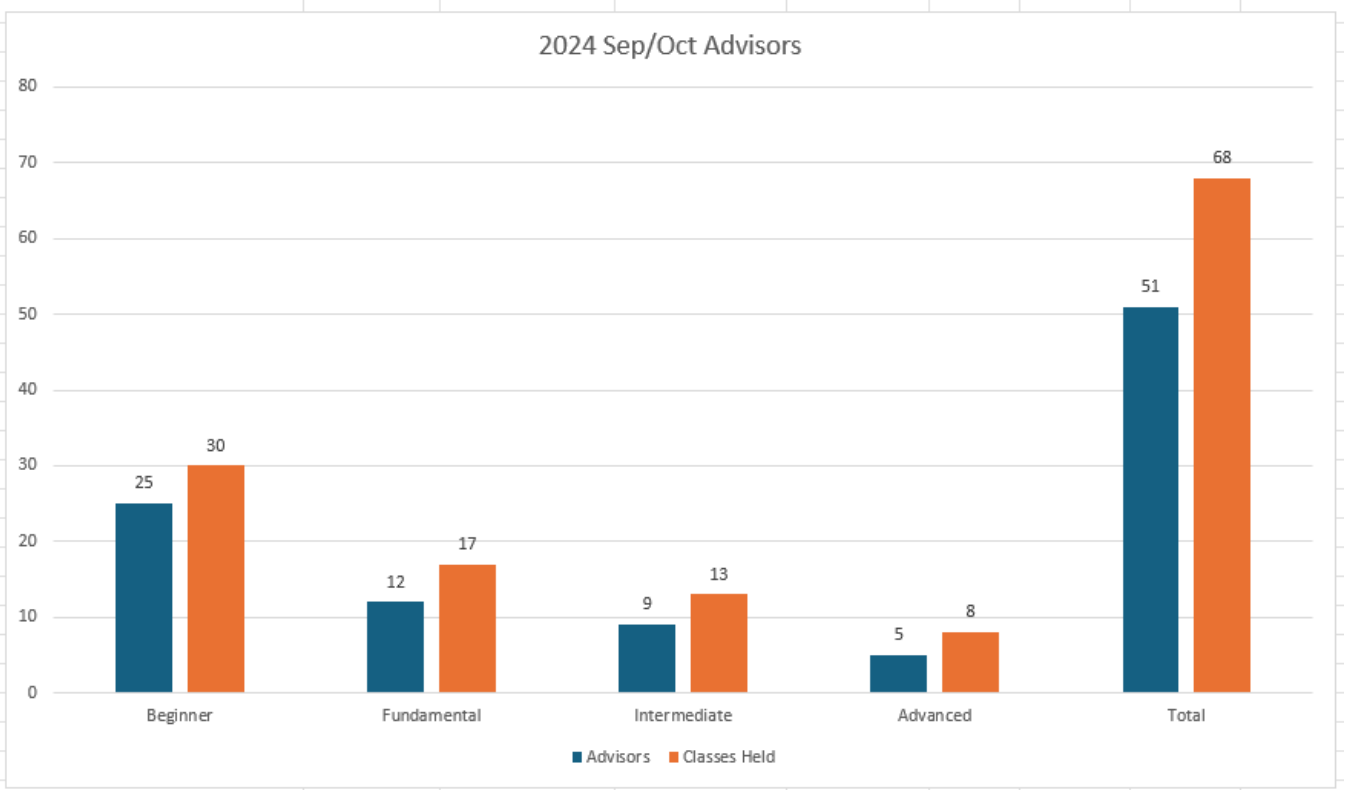
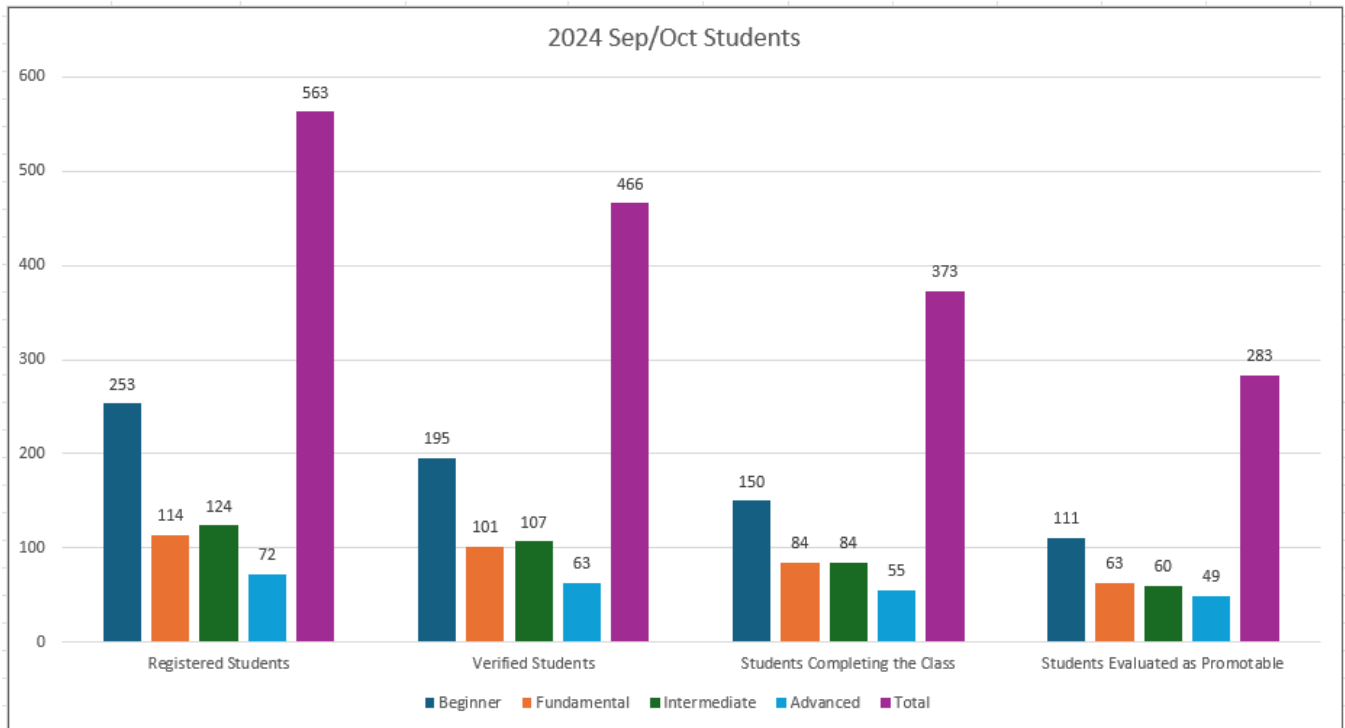
November 2024

45

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We have also just completed the 2024 Sep/Oct semester and of the 373 students completing the course, we had more than 75% being promotable to the next level.



73, Bob WR7Q, CWops #1423, CWA Admin

CWops Tests (CWTs)

[Rich Ferch](#), VE3KI

As of November 1, we had completed 176 of this year's 204 CWT sessions. With two months left to go, there are still four members who have reported scores in all 176 CWTs so far: G3LDI, K1DJ, K4PQC and KO4VW.

There are 74 CWops members who have already reached the gold medal participation level, another 66 who have achieved the silver medal level, and several more who have qualified for bronze. I expect that all of these numbers will increase rapidly over the next few weeks.

In total, there have been 46,565 claimed CWT scores reported to 3830scores.com so far this year, with a total of 2,764,069 reported QSOs. Of course, most of those QSOs were reported by both participants. We can do the math to find the average number of QSOs per reported score (a little over 59), but perhaps a more representative number would be the median reported QSO count of 47; half the reported scores claim 47 or more QSOs, and half 47 or fewer. The most popular claimed QSO score is 20 QSOs, followed closely by scores of 10, 12 and 15 QSOs. In fact, 22% of the reported CWT scores claim 20 QSOs or fewer. Looking at higher scores, reported scores of 100 or more QSOs are in the top 18%, and a score of 200 or more QSOs would be in the top 2% of all reported scores.

The most popular of the four CWT sessions continues to be the 1900z session, with 16,328 scores reported so far, but the 1300z session is very close behind, at 15,726 reported scores. That's an average of 371 participants in each 1900z CWT, and 357 participants at 1300z. For comparison, in 2023 the average participation numbers for the year were 375 at 1900z and 367 at 1300z. The 0300z session is not quite so popular, with 10,457 reported scores for an average of 238 participants, compared with last year's average of 250. The 0700z session is much less crowded, with an average participation so far this year of 92 as compared with 87 in 2023.

Enjoy the CWTs and keep those reported scores coming!

73, Rich VE3KI (CWops #783)
CWT Manager

2024 CWops Test (CWT) Schedule

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Week 1	3-4	1	6-7	3-4	1-2	5-6	3-4	1	4-5	2-3	6-7	4-5
Week 2	10-11	7-8	13-14	10-11	8-9	12-13	10-11	7-8	11-12	9-10	13-14	11-12
Week 3	17-18	14-15	20-21	17-18	15-16	19-20	17-18	14-15	18-19	16-17	20-21	18-19
Week 4	24-25	21-22	27-28	24-25	22-23	26-27	24-25	21-22	25-26	23-24	27-28	25-26
Week 5	31	28-29			29-30		31	28-29		30-31		



CWops Member Awards

[Bill Gilliland](#), WØTG



Monthly Update

During October, four additional members submitted logs and the number of active participants in the awards program is currently 262.

The **ACA** QSO totals and rankings for the end of October 2024 have **KR2Q** in first place and leading second place **AA3B** by 187 QSOs. The top ten ACA totals this month are: **(1) KR2Q, (2) AA3B, (3) KY4GS, (4) N5RZ, (5) DL6KVA, (6) K3WW, (7) N5ZO, (8) KO4VW, (9) KC7V** and **(10) NA8V**. The separation between first place and tenth place is 521 QSOs.

The **ACMA** QSO totals and rankings for the end of October 2024 have **AA3B** in first place and leading second place **KR2Q** by 652 QSOs. The top ten ACMA totals this month are: **(1) AA3B, (2) KR2Q, (3) N5RZ, (4) DL6KVA, (5) KY4GS, (6) N5ZO, (7) NA8V, (8) K7QA, (9) KC7V** and **(10) K3WW**. The separation between first place and tenth place is 2191 QSOs.

The **CMA** QSO totals and rankings for the end of October 2024 have **AA3B** in first place and leading second place **K3WW** by 3408 QSOs. The top ten CMA totals this month are: **(1) AA3B, (2) K3WW, (3) N5RZ, (4) N5ZO, (5) KR2Q, (6) DL6KVA, (7) W1RM, (8) NA8V, (9) F6HKA** and **(10) K3WJV**. The separation between first place and tenth place is 6308 QSOs.

During October, the number of participants who have contacted CWops members in 100 or more DXCC entities grew to **87** with the addition of **MØNGN**.

The number of participants who have accomplished CWops WAS grew to **249** this month with the addition of **K4EU** and **N9FZ**.

You can see complete rankings for all award categories at <https://cwops.telegraphy.de/scores>.

CWops Award Tools Participation

At the end of 2023 we had 271 active participants in the Member Awards Program. As of November 5, 2024, we have 262 active participants. If you have not yet submitted any logs for 2024, please do so soon, and we can include your score among the participants.

The Top 100 and the Searchable and Sortable Scores Table show rankings and scores for active participants only. To be an active participant and be included in awards scoring including the ACA, ACMA and CMA competitions, you must have submitted a log during the current year. To see rankings and scores for both active and inactive participants please use the Score Overview Table where inactive participants are listed with ACA and ACMA scores of zero, but their scores in other categories are listed at the highest level that was previously submitted.

You can see the final 2023 scores or final scores for any other year by going to the Score Over-

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view Table and selecting the desired year from the "Final scores:" list at the top of the page.

All scores categories on the page will then show the final scores and standings for the end of the selected year.

The Searchable and Sortable Table can graph your current year's ACA scores by date and allows you to compare your progression to that of others. Check the Plot button for the calls you wish to see plotted and they will all appear on the same graph.

The CWops Award Tools website main page provides a means of printing your CWT Participation Certificate. You may request a downloadable certificate by clicking the "CWT certificate download" selection at the top of the page. For more information about CWT Participation Awards, please go to <https://cwops.org/cwops-tests/>.

CWops Member Awards Program Overview

Several operating awards are available for contacting CWops members. These include **Annual Competition Award (ACA)** recognizing the total number of CWops members contacted during the current year, **Annual Cumulative Membership Award (ACMA)** counting QSOs with members on all bands (once per band) during the current year, **Cumulative Membership Award (CMA)** counting QSOs with members on all bands (once per band) since January 3, 2010, **CWops WAS** award for contacting members in all 50 states, **CWops DXCC** award for contacting members in countries on the ARRL DXCC list, **CWops WAE** award for contacting members in Europe, and **CWops WAZ** award for contacting members in each of the 40 CQ zones. All contacts must be via CW and between current CWops members. To qualify for these awards, you must submit your logs via the tool at the CWops Award Tools [website](#) . You can also print out your awards certificates at that same website.

A set of tools for managing your awards status is provided on the CWops Award Tools website and if you regularly upload your logs your awards will be automatically tracked for you. To view complete data for all currently active participants and see where you and others rank among active participants in the awards program, use the [online tools](#). For more details on the tools provided, see the [August 2021 Solid Copy](#) article.

Please Join Us!

Fabian, DJ5CW, who created the website and the tools, made it extremely easy to participate in the awards program.

If you are not among the CWops members who are currently participating, please join us! It adds a lot of friendly competition and fun to your operating.

More Information

View our website for more information on the [CWops Awards Program](#). Send your feedback, questions or comments to cwopscam@w0tg.com.

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Here are the Top 100 ACA, ACMA and CMA QSO totals as of October 5, 2024.

ACA

Rank	Call	ACA
1	KR2Q	1889
2	AA3B	1702
3	KY4GS	1606
4	N5RZ	1493
5	DL6KVA	1449
6	K3WW	1415
7	N5ZO	1407
8	KO4VW	1397
9	KC7V	1378
10	NA8V	1368
11	K7QA	1329
12	AA2IL	1318
13	KG9X	1303
14	K3QP	1229
15	F6HKA	1224
16	N5TJ	1216
17	OM2VL	1198
18	N5AW	1190
18	N7US	1190
19	K1VUT	1162
20	W4CMG	1161
21	NJ3K	1142
22	WT9U	1136
23	VE3TM	1126
24	K9WX	1123
25	EA1X	1108
26	NE5A	1107
27	WT3K	1105
28	WN7S	1085
29	EA6EJ	1081
30	K0WA	1077
31	W8FN	1064
32	VK2GR	1054
33	F5SGI	1036
34	KM4FO	1032
35	K3JT	1027
36	N5KD	1022
37	K6NR	1010
38	9A1AA	991
38	WS7L	991
39	W0UO	990
40	K3WJV	988
41	KW7Q	984

ACMA

Rank	Call	ACMA
1	AA3B	5809
2	KR2Q	5157
3	N5RZ	4694
4	DL6KVA	4291
5	KY4GS	4245
6	N5ZO	4171
7	NA8V	3914
8	K7QA	3781
9	KC7V	3726
10	K3WW	3618
11	OM2VL	3520
12	KO4VW	3423
13	KG9X	3211
14	AA2IL	3194
15	N5TJ	2865
16	N5AW	2830
17	K1VUT	2779
18	EA1X	2775
19	N7US	2757
20	F6HKA	2579
21	WN7S	2539
22	WT9U	2530
23	K9WX	2519
24	NJ3K	2456
25	K6NR	2443
26	W8FN	2414
27	EA6EJ	2406
28	VE3TM	2400
29	WS7L	2392
30	W4CMG	2381
31	K3QP	2336
32	K0WA	2279
33	WT3K	2240
33	K3WJV	2240
34	KM4FO	2208
35	W0UO	2192
36	KW7Q	2155
37	N5XE	2105
38	K3JT	2102
39	9A1AA	2091
40	EA6BF	2090
41	VE3KI	2058
42	K4IU	2004

CMA

Rank	Call	CMA
1	AA3B	14394
2	K3WW	10986
3	N5RZ	10173
4	N5ZO	10109
5	KR2Q	9829
6	DL6KVA	9327
7	W1RM	9305
8	NA8V	9278
9	F6HKA	8563
10	K3WJV	8086
11	VE3KI	8046
12	K7QA	7506
13	OM2VL	7489
14	KG9X	7472
15	N5AW	7345
16	KC7V	7327
17	N7US	7290
18	W9ILY	7008
19	WT9U	6751
20	W0VX	6687
21	K1VUT	6590
22	K3JT	6556
23	K9WX	6363
24	N4DW	6255
25	K6NR	5931
26	K3PP	5902
27	SM6CUK	5858
28	N2UU	5852
29	K1DJ	5836
30	K4IU	5797
31	N1DC	5776
32	N5TJ	5736
33	W4WF	5681
34	WT3K	5677
35	KY4GS	5632
36	9A1AA	5583
37	WN7S	5535
38	G4BUE	5341
39	AA5JF	5242
40	W8FN	5200
41	W0UO	5091
42	AC6ZM	5074
43	VE3TM	5073

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ACA

42	K1DJ	970
43	KK0U	958
44	K1AJ	945
45	AA5JF	938
45	EA6BF	938
46	AC6ZM	930
47	VE3KI	927
48	K4IU	920
49	N9UNX	918
50	W9ILY	912
51	N9FZ	908
52	N1DC	903
53	OZ3SM	897
54	KW1X	886
55	W1RM	885
56	AF5J	879
57	DM6EE	876
57	K1SM	876
58	N5XE	872
59	KV8Q	859
60	W4WF	857
61	SM6CUK	855
62	NA4J	851
63	K4TZ	846
64	WU6P	841
65	N2EIM	826
66	N2UU	818
67	K4GM	815
68	W0VX	812
69	K3ZA	810
69	WA4JUK	810
70	SP1D	799
71	W2CDO	776
72	W3WHK	768
73	KC4WQ	763
74	KR3E	754
75	W9CF	740
76	M0RYB	734
76	WS1L	734
77	W8EWH	733
78	DJ5CW	731
79	VE9KK	730
80	VA4ADM	724
81	KY0Q	713
82	KT5V	709
82	N3CKI	709
83	K0TC	698
84	SM0HEV	695
85	VE3MV	690

ACMA

43	NE5A	2000
44	F5SGI	1968
45	OZ3SM	1967
46	KK0U	1947
47	VK2GR	1916
48	K1AJ	1914
49	K1DJ	1885
50	N5KD	1880
51	AF5J	1863
52	SP1D	1848
53	W4WF	1844
54	W0VX	1827
55	AC6ZM	1807
56	W9ILY	1802
57	AA5JF	1791
58	SM6CUK	1787
59	N9UNX	1754
60	WU6P	1748
61	W1RM	1738
62	DM6EE	1732
63	N2UU	1729
64	NA4J	1701
65	N1DC	1668
66	K4GM	1617
67	KW1X	1616
68	KV8Q	1593
69	M0RYB	1578
70	G4PVM	1574
71	W9CF	1572
72	N9FZ	1544
72	K4TZ	1544
73	SM0HEV	1541
74	VE3MV	1537
75	K1SM	1530
76	OK1RR	1524
77	W0TG	1523
78	WS1L	1511
79	W3WHK	1505
80	DJ5CW	1499
81	W2CDO	1478
82	K3ZA	1474
83	WA4JUK	1434
84	KY0Q	1405
85	PA0INA	1399
86	K1RF	1348
87	K4PQC	1319
88	VE9KK	1315
89	WA9LEY	1304
90	HB9ARF	1289

CMA

44	K1SM	5029
45	NJ3K	4945
46	EA1X	4866
47	DL5AXX	4841
48	W1AJT	4764
48	F6JOE	4764
49	GW0ETF	4712
50	WA9LEY	4685
51	N5XE	4674
52	AE1T	4592
53	AA2IL	4582
53	WA4JUK	4582
54	K4GM	4553
55	NA4J	4545
56	OK1RR	4539
57	KO4VW	4524
58	WS7L	4480
59	K3QP	4439
60	WN4AFP	4329
61	I2WIJ	4285
62	VE3MV	4260
63	W6AYC	4210
64	AB9YC	4205
65	K1AJ	4204
66	KT5V	4183
67	OZ3SM	4149
68	KC4WQ	4127
69	DJ5CW	4077
70	VK2GR	4050
71	KM4FO	4004
72	K1EBY	3976
73	W0TG	3865
74	NE5A	3856
75	K0WA	3845
76	DF7TV	3844
77	KY0Q	3835
78	N5KD	3827
79	N1EN	3822
80	W3WHK	3816
81	K0TC	3796
82	EA6BF	3789
83	WS1L	3787
84	AF5J	3736
85	KK0U	3712
86	G4PVM	3702
87	F5SGI	3695
88	KV8Q	3685
89	W2CDO	3636
90	DM6EE	3569

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ACA

86	OK1RR	688
87	VE3KIU	684
88	K1RF	683
89	WA9LEY	679
90	PA0INA	668
91	G4PVM	665
92	K4PQC	649
93	EA3FZT	634
94	HB9ARF	629
95	N5ER	628
96	W0TG	626
97	VE3INE	624
98	KB8GAE	619
99	KC8J	618
99	W1AJT	618
100	WN4AFP	608

ACMA

91	K0TC	1288
92	KC4WQ	1268
93	W8EWH	1247
94	N3CKI	1240
95	VE3KIU	1239
96	KR3E	1234
97	KC8J	1157
98	EA3FZT	1142
98	G4BUE	1142
99	N5ER	1117
100	VA4ADM	1115

CMA

91	W4CMG	3500
92	AF4T	3493
93	WU6P	3473
94	SM0HEV	3450
95	K4TZ	3446
96	KW7Q	3421
97	AF8A	3403
98	HB9ARF	3365
99	M0RYB	3346
100	K9OZ	3311



73, Bill W0TG (CWops #1873)

CWops Operating Awards

SC

QTX Report: Enjoying the Art of Conversational CW

Enzo, M0KTZ

It's always good to read how the QTX/MQTX crew manages to squeeze radio time amidst all the stuff that happens around our shacks. Despite other commitments, daily jobs, family events, antenna works, garden chores, unforeseen catastrophes, and plain simple "real life" constantly demand our time and energy, we all find a good measure of relief and relax on the air, chatting with friends old and new. It's not the number, as we always say, but the sheer pleasure of getting in the shack, sitting back, and seeing where the airwaves will bring us, even if for a single QSO.

I finished advising my 2nd CW Academy Advanced class in October (the 5th class overall since I started advising), and I had a great time seeing how much progress our fellow operators can make in the short span of two months. Their commitment and dedication to improving their CW skills is truly laudable. I had the class members thanking me at the end of the term for the "work I had done". But they don't understand that we advisors do not do much more than showcasing tricks, pointing to potential pitfalls, and warning them against some of the shortcomings of their learning path. And we cheer them along the path, yes, sure, we do that a lot! Successful CW

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Academy students should only thank themselves, as it is their commitment and dedication that works wonders and makes the magic happen. I fully understand our QTX pals when they report being happy to work a past CW Academy student: seeing other operators you have working with in a class, ploughing along on the bands, using the correct procedures, sending beautiful code, and above all, having so much fun with CW, is really an extraordinary experience. It makes we feel better and more positive about the hobby: CW is not dead, quite the opposite! And it will not be dead in 200 years, either, as long as a bunch of passionate custodians will keep it alive on the amateur bands, just for the pleasure and the fun of it.

This month we welcome to the QTX/MQTX family Cainan N9FZ, who has started sending in the logs of his ragchewing adventures. Please read through the soapbox comments, as there are some interesting insights! As usual, please send in your results for November by the 3rd of December.

72/73 de Enzo, MØKTZ (CWops #3206)

2024 Total Number of Hours Worked: 2412

(based on avg 20 min QTX, 10 min MQTX)

<u>Call</u>	<u>Hrs</u>	<u>Call</u>	<u>Hrs</u>	<u>Call</u>	<u>Hrs</u>	<u>Call</u>	<u>Hrs</u>	<u>Call</u>	<u>Hrs</u>
WA4IAR	420	K9OZ	79.3	KC0VKN	24.3	N9EEE	11.5	G0DJA	2.7
VE3WH	202	F5IJ	71	MM0UMH	23	MI0WWB	10.8	W9EBE	2.3
KY4GS	194	M0MZB	63	DF7TV	22.7	KF6NCX	9.8	K7VM	1.5
M0KTZ	162	KG5IEE	62.5	DG5CW	22.3	IU3QEZ	9.3	WT9Q	1.3
ND4K	145	N7HCN	53.7	M0SDB	22.2	VK3QB	8.3	N7BAS	1.3
N8AI	131	AF4PX	44.5	KG5SSB	16.7	KE4I	8.3	W6QX	1.2
KR2Q	113	PG4I	32	K8UDH	15.7	W3WHK	8.2	AD4SA	1
AA0YY	99.8	YL3JD	29.8	K6DGW	14.8	N5LB	7.7	N9FZ	0.8
KB6NU	91.7	AJ1DM	25.3	GW0ETF	12.3	G4IVV	5	JS2AHG	0.8
WB4IT	84.8	N2DA	24.7	N1ZX	11.7	AB0WW	5	GW0KRL	0.7

DG5CW: Vy QRL, lots of travelling and rarely QRV this month...thus figures are low.

W3WHK: Long chat with Mike VE3GFN(#1119)...always a pleasure.

M0SDB: Training for marathon interrupted proceedings a little however I am now free from running for a little while so back on the QTX mission. Just can't beat a ratchet in CW!

K8UDH: I was busy this month with tower and antenna construction. Not much time to get on the air, but the QSOs I had were great fun.

KR2Q: I thought that my 40 QTX Qs this month would be my high point for 2024, but I was wrong. That happened in Jan with 43. My total QTX time for Oct 2024 is 19 hours and 43 minutes, just 50 minutes short of my January QTX total. I have 2.5 weeks vacation time in Dec this year. Let's see what happens then. Thanks to all of my partners in QTX crimes.

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KG5IEE: Had a nice surprise while working the Classic Exchange. Got a call from Dale KJ7CJG who was a student in my CW Academy Beginner class a few sessions ago. Good to hear him since he is HOA restricted and using his rain gutter as an antenna.

VE3WH: Like my other passion, motorcycles, attending an event is all about meeting friends and chatting about everything bike-related. It's the same with CW rag chews. We meet, we discuss radios, keys, the weather, or whatever comes to mind. It's a time to relax and talk about what's happening that day. Give it a try!

WA4IAR: Had a good month even had a camping trip with four days of making QSOs on a picnic table. Lots of good QSOs and a few new friends. I would like to thank the QTX program for encouraging me to spend enough time in a QSO to get to know the other operator a little better.

WB4IT: I'm back on the air this month after a summer break. I did lots of portable operating in October and even managed to get some QRP QTX in the field.

N2DA: Enjoyed regular CW skeds with John AJ1DM and Steve WA3JJT. Been fun keeping up with long time ham radio friends!

N7HCN: Finally a permanent antenna at the new QTH, and it's like getting a hearing aid and a megaphone at the same time. Great ragchewing and easier on the other stations SNR!!

MØMZB: Several nice long QSOs this month, lasting over 40 mins, including a most excellent QSO with OZ8CW where I was able to work on my sending at 45 wpm with a few tips on how to relax my fingers between words. A great chat with our very own Enzo, MØKTZ and even a maritime mobile QTX with G4HSO/MM on his 10m sailing boat. I spent a night camping at 700m on Seatallan (again - a regular outing) and managed several lengthy QSOs through the night in quite good conditions. Currently building a QMX radio, and looking forward to some good ragchews QRP style.

KB6BU: I didn't realize that you were counting the mini-QTX contacts into the rankings, so I'll start reporting them from now on.

AJ1DM: Always a pleasure to ragchew with my friends!

GWØETF: Solitary QTX this month was half an hour with an ex Navy G3 learning to use a paddle after a lifetime with a straight key. Arthritis getting the better of him...

N9EEE: Squeaked in a couple of Qs while visiting home. (Who visits home?)

N8AI: Hector XE2K repaired KØNM remote antenna damage from Hurricane Beryl. Huge increase in my 40m QTX and mQTX scores resulted!

KE4I: I can't find my results I turned in to get the total QTX and Mini QTX for lifetime. Anyone know where I can find them?

PG4I: Not much time for ragchewing this month, been active with the callsign PF6SKCC for the SKCC BRAG activity. Enjoyed one excellent QTX QSO with Ian IK4EWX on 40 meters, using a bug.

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QTX - October 2024

<u>Call</u>	<u>QTX</u>	<u>Call</u>	<u>QTX</u>	<u>Call</u>	<u>QTX</u>	<u>Call</u>	<u>QTX</u>
WA4IAR	119	N7HCN	30	KE4I	8	AB0WW	3
N8AI	55	F5IYJ	21	AJ1DM	8	YL3JD	2
KR2Q	40	KB6NU	20	KG5IEE	7	DG5CW	2
VE3WH	39	KY4GS	15	N2DA	6	AF4PX	2
M0KTZ	39	M0MZB	13	M0SDB	4	W3WHK	1
K9OZ	38	WB4IT	10	K8UDH	4	PG4I	1
						N9EEE	1
						MM0UMH	1
						GW0ETF	1
						G4IVV	1

MQTX - October 2024

<u>Call</u>	<u>MQTX</u>	<u>Call</u>	<u>MQTX</u>	<u>Call</u>	<u>MQTX</u>	<u>Call</u>	<u>MQTX</u>
KY4GS	53	M0SDB	25	KE4I	12	AB0WW	8
WA4IAR	36	VE3WH	22	PG4I	11	MM0UMH	7
KR2Q	35	KG5IEE	21	DG5CW	11	AF4PX	7
M0KTZ	33	KB6NU	19	N7HCN	8	W6QX	5
N8AI	26	YL3JD	14	M0MZB	8	GW0ETF	4
						WB4IT	3
						G4IVV	3
						AJ1DM	3
						N9EEE	2
						W3WHK	1

QTX - Totals 2024

<u>Call</u>	<u>QTX</u>	<u>Call</u>	<u>QTX</u>	<u>Call</u>	<u>QTX</u>	<u>Call</u>	<u>QTX</u>
WA4IAR	1094	F5IYJ	213	MM0UMH	40	N1ZX	17
VE3WH	501	AA0YY	205	K8UDH	39	KF6NCX	17
ND4K	359	N7HCN	149	MI0WWB	27	KE4I	16
N8AI	290	M0MZB	113	KG5SSB	26	DF7TV	13
KY4GS	287	AF4PX	94	DG5CW	26	IU3QEZ	12
KB6NU	263	KG5IEE	89	N9EEE	24	YL3JD	8
M0KTZ	252	N2DA	74	N5LB	22	GW0ETF	8
K9OZ	238	KC0VKN	73	W3WHK	18	G4IVV	7
KR2Q	220	AJ1DM	65	M0SDB	18	AB0WW	6
WB4IT	215	PG4I	62	K6DGW	18	W9EBE	5
						WT9Q	4
						VK3QB	4
						N7BAS	3
						K7VM	3
						G0DJA	2
						AD4SA	1

MQTX - Totals 2024

<u>Call</u>	<u>MQTX</u>	<u>Call</u>	<u>MQTX</u>	<u>Call</u>	<u>MQTX</u>	<u>Call</u>	<u>MQTX</u>
KY4GS	590	ND4K	153	GW0ETF	58	AJ1DM	22
M0KTZ	468	M0MZB	152	K6DGW	53	N9EEE	21
WA4IAR	331	DF7TV	110	KG5SSB	48	KE4I	18
KR2Q	239	M0SDB	97	VK3QB	42	AB0WW	18
VE3WH	211	DG5CW	82	N1ZX	36	K8UDH	16
N8AI	203	WB4IT	79	IU3QEZ	32	G4IVV	16
KG5IEE	197	AF4PX	79	KF6NCX	25	W3WHK	13
AA0YY	189	PG4I	68	N7HCN	24	G0DJA	12
YL3JD	163	MM0UMH	58	KB6NU	24	MI0WWB	11
						W6QX	7
						N9FZ	5
						JS2AHG	5
						W9EBE	4
						GW0KRL	4
						AD4SA	4
						K7VM	3
						N7BAS	2
						N5LB	2



My Story: New Member Introductions

Compiled by [Tim Gennett, K9WX](#) (CWops #1462)

Scott Wooten, KW4NJA CWops #3607

I currently live in Athens, GA., home of the University of Georgia and the beautiful countryside of Northeast Georgia. I have spent my entire adult life in Public Safety and retired in 2021 after a 22-year career in the Fire Service at the rank of Captain. I still work part-time as a paramedic for University of Georgia Athletic Events, entering my 40th year providing care to both athletes and spectators. I have been married to my wife Karla for 39 years and we have three children (all married and out of the house). Our oldest son is a Georgia State Trooper, our middle son is a Software Engineer for Credit Karma in Charlotte, NC, and our youngest daughter is a 1st-grade teacher. We both could not be prouder of our kids. We welcomed our first grandson in April 2024 and welcomed a beautiful granddaughter on October 6th, 2024. We have our third grandchild due in March 2025. Three little ones under a year old is going to be epic!! I love being a "Pop Pop".

My ham radio hobby began after I retired from the Fire Service. I have always been interested in the hobby, but did not have time to pursue it given the shift schedule I was on. I became licensed in 2021, and shortly afterwards got hit with the CW bug. I became enthusiastic about CW and spent the first few months trying to "self-teach" myself Morse code. I found the CW Academy in 2022 and immediately enrolled in the beginner class. Steve Robbs (WJØC) guided me through both the beginner and fundamentals class. He is a phenomenal advisor, and I would never have gotten the confidence to get on the air regularly without his encouragement. My Intermediate advisor, Roy Godden (KK6M) has brought me to a new level with both speed and head copy. I want to thank both for their guidance.

Special thanks go to John Laney (K4BAI) for nominating me, Quentin Caudron (K7DRQ), Phil Specht (K4PQC), Steve Randall (K04VW) and Cathy Goodrich (W4CMG) for their confidence shown in me by their sponsorships. Each one of these outstanding CWops members have given me so much valuable advice and guidance. I cannot thank them enough.

I look forward to many more years growing in my abilities as a CW operator and can't wait to see what the future holds.



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Harald (Hal), DM3ZM CWops #3609

Born in 1958, I had my first contact with CW from 1977 to 1980 in the army, where I was trained as a telegraph operator.

After that there was a long break, my hobby was equestrian sports (dressage and military). Much later, in 2011, I acquired my amateur radio license, first as a beginner with the callsign DO9HSK, then in May 2013 the “big” license with the callsign DM3ZM.

I am based in the east of Germany, in the Spreewald region.

I mainly work in CW, with paddle or straight key. The station consists of a YAESU FTDX-3000 and an Aerial51 Mod. 807 HD antenna.

My special interest is contesting, diplomas and special call signs. My special thanks to my nominator Uwe, DK3WW, and my sponsors Manos, SV1ME; Rien, PA7RA and Fabian, DJ5CW.

You can find more information on my QRZ.com page.



Scott Oakland, N1IA CWops #3611

“My Dad was in the Signal Corps during WW II, where he used Morse code to attempt to decipher Japanese transmissions in the Pacific. When I was 15 and living in RI we got involved in CB radio in 1976. After 3 yrs of that, I got interested in ham radio and took the Novice test and passed, becoming KA1CCA in Jan 1979.

I’ve been pretty active ever since, snagging the callsign W1AL in 2004 until earlier this year when I opted for a more CW friendly 1X2 and became N1IA. I’m interested in CW, FT8, DX, antennas, and restoring Vibroplex bugs.

I reside in Florida and run the Bulgarian-made super-heat Mission RGO One transceiver, an Acom 1000 HF 1KW amplifier, and a 200 ft end fed long wire on top of a 6 ft privacy fence. You’ll find me in the CWT at around 25-35 WPM. Look forward to working all of you!



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Tom Lewis, N4TTU CWops #3599

My interest in radio stems from sitting in front of an old Grundig tube console as a kid at night wondering “where are these people?” as I scanned around the SW dial. In particular, the sound of the OTH radars which I thought were some sort of atmospheric anomaly. Or perhaps aliens, as a kid might think, and the beeps and burbles of CW which were most certainly coded messages I was not intended to hear. That, and years of living in studios with microphones, consoles and tape machines making records.



During the 2020-21 “long year of staying home,” friend and longtime recording studio associate KF4RX Jim suggested to me that I might enjoy radio, and encouraged me to study for a Tech license which I did, and didn’t stop. I was issued KO4MII in February 2021 and took the vanity KO4TCL when I got my General and Extra in April and June 2021. In the time since I’ve taken to learning to build antennas suitable to my needs in an apartment QTH, sticking my hands into radios and amplifiers (safely, of course), building tiny kit radios and tuners, and generally wondering why I didn’t start doing this as a kid!

When I expressed interest in learning CW, musician/photographer/CW enthusiast and friend AA4GA Lee Hiers (#973) gave me his old Bencher BY-1 with the understanding that I either had to learn to use it or give it back. In the Fall of 2023 I enrolled in CW Academy and under the tutelage of Gary N8LR (#1818), Chris KT9N, John AA5ND (#3248) and Mark K5GQ (#672), I have continued the journey. After operating a little doing SSTs and chasing DXpeditions, the good sense of a fast and easy send/copy call hit me and I was issued N4TTU (which may soon undergo a slight revision).

Many thanks to my sponsors K4BAI John, KO4VW Steve, K5GQ Mark, NM5D Jeremy, and K4PQC Phil - you are all so very much appreciated. You can find me attending SST, MST, and CWTs when I can, hunting POTA stations from home when I’m not out in them myself, and occasionally deciding I need all bands/modes for a DXpedition within my reach. I’m also the 15m band coordinator for OMIS as well as the Tuesday night 80m NCS, and Friday night 160m NCS. One of these days I’ll feel competent enough to ragchew CW. It’s a ride for sure, and I haven’t jumped off since it started rolling.

Brian Moore, KM6ZX CWops #3610

I was first licensed in early 2019. My introduction to radio and electronics was much earlier. When I was 11 years old, my parents gave me a Heathkit transistor AM radio for Christmas.

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I soldered it together all by myself, and when I turned it on, it actually worked! I begged my parents for more Heathkits, eventually getting a HW-99 Novice transceiver. With help from my father, we got it working. I started learning CW and studying for my Novice license. Unfortunately, we did not know any other hams in our area who could help me get on the air. My interests shifted elsewhere, such as model airplanes. My model airplane hobby quickly scaled up to full size airplanes. I joined the military where I flew the F/A-18 Hornet and operated from aircraft carriers. After leaving the military, I am continuing in my aviation career as an airline pilot. I currently fly the Boeing 737, and my favorite routes are to Alaska, Hawaii and Central America.

In late 2018, while browsing the web for electronics projects to do with my children, I came across the QCX single-band CW transceiver. At \$49 it seemed like a fun little project. I ordered one for the 40m band, and I also ordered the ARRL Technician license manual. It didn't take me long to build the QCX, pass the Technician exam, and get on the air. I made my first successful QSO with Wyatt, KF7YHB. It was a nice slow ragchew at about 8-10 wpm. In addition to the standard QSO, I managed to communicate I was using a QCX transceiver and this was my first amateur radio QSO. The QCX's built-in decoder helped a lot, but I soon turned the decoder off and never looked back. From then on, I was completely hooked on improving my CW skills and ragchewing. I listened to many W1AW code practices, other on-the-air QSOs, or online practice CW recordings to improve my copy. I did not memorize any eye charts, or take any CW courses due to my irregular flying schedule. I am self-taught, and learned CW by doing CW.



My other ham radio passion project involves mentoring young college students at the Irvine Valley College Amateur Radio Club, N6IVC. My focus is on teaching CW classes and helping the college students to get on the air. We are currently building a college amateur radio station, that will be open for all licensed students to use. I encourage the students to just get on the air, set goals, don't be afraid to make mistakes, and to always strive for excellence. When I demonstrate CW to new hams I use my original QCX, and show them all you need is a \$50 radio, wire antenna, inexpensive straight key. Almost anyone can afford to get on the air and make contacts, and when you make contacts you'll be making lifelong friends.

I have been married to my lovely wife Susi for 22 years, and we have four beautiful children, three girls and a boy. My son Benedikt is licensed as KO6EJT, and I hope someday he decides to learn CW. Maybe seeing how much fun I am having making friends over the radio will encourage him. Thank you Jim, N3JT for telling me about CWops and being the first to nominate me for membership. I look forward to ragchewing with as many CWops members as possible. I will continue to learn, challenge myself, improve my operating skills, and strive for excellence.

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Ed Radlo, AJ6V CWops #3614

It's an honor and a privilege to be a member of such a fine organization as CWops. I was first licensed as a Novice at age 13 in my home state of Rhode Island as KN1LDK. My first contact was with my Elmer, Maury W1OEO, who helped me with all aspects of getting on the air. I upgraded to general class within a year and was quite active on CW as K1LDK while in high school. I became interested in DX, earning DXCC, and in contests, particularly the ARRL CW Sweepstakes.

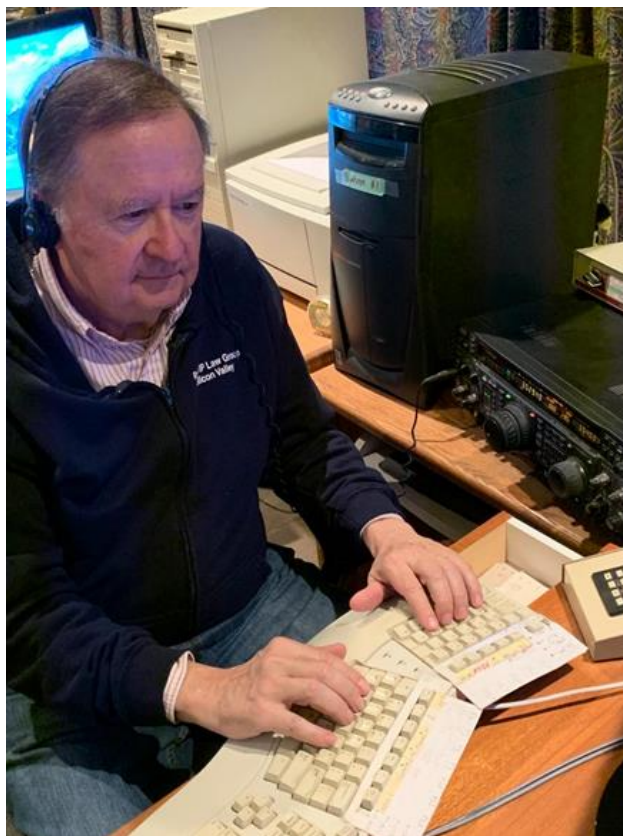
I put amateur radio on hold for a few years as I obtained my bachelor's degree in mathematics, satisfied my military obligation during the Vietnam War period (as a commissioned officer in the U.S. Public Health Service), and obtained my law degree. The one radio thing I did during that period was to upgrade to Amateur Extra.

I began my legal career as a law clerk on the Supreme Court of Rhode Island, then worked for several corporations and large law firms as a patent attorney before starting my own law firm, Radlo & Su, where I am still active. I practice patent law, export control law, and trademark law. Areas of technology in which I work include computer hardware and software, telecommunications, networking, cryptography, and artificial intelligence.

When I moved to California in 1974, I obtained the callsign AJ6V. I have been on the top of the DXCC honor roll since 2007, and have earned DXCC on 8 bands. I joined the NCCC in 1979, served as its President in 1984-1985, and am currently on the NCCC Board. I've operated in contests outside the continental U.S. on 10 occasions (9 CW and 1 SSB). My best showing was coming in third in the world as a single-op in the 2002 ARRL DX CW contest using the callsign VP5U. I was also a part of the P40V multi-multi team in the 1988 CQ WW CW contest, where we broke the existing world's record by 40% but came in second in the contest to PJ9B.

My immediate family consists of my XYL Patty, our two sons (one is KF0AKQ), one daughter, and one two year old grandson.

My current station comprises an FT 1000 MP driving a KPA-1500. Antennas are a Force 12 C4 at 62 feet above ground, and a Gap Voyager for 80 and 160.



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Michael Sansom, GØPOT CWops #3617

As a child in the 70s I benefited from the fact that all the radios in the house covered the shortwaves and so it was that I spent hours and hours listening to the fading signals of Radio Luxembourg, the alternative Cold War narrative of Radio Moscow and the intriguing dits and dahs of, what I imagined were, spies and foreign correspondents. I think my future as a ham and a telegraphist was signed and sealed right then but with no one in my family circle interested in such things, it wasn't until the legalisation of CB that I got to start my lifelong learning in radio.

I loved the chaotic nature of CB but was aware that there were some technically articulate individuals there having interesting conversations about some other radio related hobby and, as a teenager, I plucked up the courage to intrude on them and ask more. They must have seen some potential in the young upstart as they pointed me to where I could go to study for the Radio Amateur Exam and as a 19-year-old I was finally licensed. An ex-RAF chap took me under his wing to teach me CW, gifting me an Admiralty Type D key and I benefited from some very supportive fists during my first QSOs that gave me a great foundation to a life of telegraphy.



Fast forward 38 years and now I'm giving back, doing everything I can to encourage and support new fists learning the code and getting on air, including supporting Long Island CW Clubs Kids Classes.

I enjoy all aspects of radio, both practical and academic, and love the constant self-development that is possible in our hobby.

Outside of radio I'm a Chartered Engineer working in telecommunications (sadly not the radio side of things!), still a little way off retirement but looking forward to the day that my hobby can be full time.

I have numerous 'other' hobbies including off-road / mountain unicycling and riding my Penny Farthing, so my XYL encourages my ham radio activities as a 'safe' option.

The CWA has provided me with a wonderful, structured way to keep developing my CW skills and Buzz (AC6AC) and his fantastic team of co-advisors have done an amazing job cajoling my cohort to be more competent fists. I look forward to more!

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Benjamin R. Morgan, KF7UFF CWops #3615

I was born and raised in Nebraska and moved to Wyoming for school in 2008 where I received degrees in biology and computer engineering. I have been working in electronics since 2013 and am now the lead electrical engineer at Metrohm Raman in Laramie, WY. My experience includes electrical design, testing and deployment including FPGAs and imaging for Raman spectrometer devices.

My wife and I got married and bought a house in 2023 and have been renovating different parts which takes up most of my current free time at home. When I can get a break from work on the house I am usually designing and building RF equipment, my current project being a miniature foxhunt transmitter for 2 m.

I got my general ticket with a buddy in 2012, not realizing we'd need to take the Tech test first. Fortunately, we both left with our general tickets and started slowly on SSB. We smartly started studying CW and I joined LICW and SKCC in 2022, and since then I've kept the microphones packed away. I enjoy field days, POTA, SOTA, and contesting. I must thank Joe Spencer, KK5NA, and the CWA class of Sep-Oct. 2024 for my improvement in proper CW operation.



Terry Stafford, W6TLS CWops #3623

I was born and raised near Cincinnati, Ohio and spent thirteen years in the US Navy before landing a job at the Air Force's (now Space Force) western test range at Vandenberg, north of Santa Barbara.

After a few years there, I ended up at NASA's Marshall Space Flight Center in Huntsville, Alabama, home of the Huntsville Hamfest. It was there that I received my Novice, Tech, and General ticket in 1988—back when CW was a requirement on the exams. The seed was planted.

It was more recently (2021) that I became an Extra and determined that I wanted to pursue CW more seriously as a prepping measure. Of course, in the beginning, I was sure it just wasn't going to happen. It was too hard. But every day, I became more comfortable than the day before. I got over the hump.



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I'm now retired and living in California's Central Valley between Fresno and Bakersfield and operate a Yaesu FTDX10 through an EFHW wire from the house (Buzz's favorite) and a Yaesu FT-891 and ATAS-120A in my truck for mobile ops. CWA was the perfect opportunity to be held accountable and to validate my seriousness. It's an honor to be nominated and sponsored into CWops and I want to say thank you to all those who make CWA happen. I also want to thank my advisor, Buzz, AC6AC and his co-advisors for their commitment to the cause and their constant encouragement. It's been a blast!

I look forward to continuing with my proficiency training and gaining more and more experience through CWops.



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