Results of the 2025 CQ WW DX RTTY Contest

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Reading all of 3830 so you don't have to…

Jeff WK6I here, your new scribe for the CQ World Wide RTTY Contest. I've been RTTY contesting since N6HC taught me that RTTY was LSB (true). The second thing I learned about RTTY contesting was that it's a whole lot easier if you can use filters narrower than 2 kHz; wow were my ears tired after that first contest (which I think may have been the WW!) My rig at the time would not allow me to select narrow filters unless I used the special RTTY connector on the back, so out came the soldering iron and I was on my way.

Anyway, I hope I have created a reasonably entertaining writeup for you, perhaps sprinkled with bits of wisdom found along the way from the stations reporting.

Busted Exchanges

In the post-contest commentary, a common theme emerged. From 3830scores.com:

Randy K5ZD: "I had a lot of requests for repeats of my location. Partly from now being in OH after 30+ years in MA. And partly because 599 04 OH was printing as 599 04 9H. I guess the shift to letters was being missed. Not sure how to fix that. Is it me or them?"

Jeff ACØC: "There may have been some weird atmospherics causing many many many requests for repeats. It got so bad I ended up making a special macro that sent "KS" 5 times and must have used that a couple of hundred times. 5 seemed to be the magic number as I started out with 2 and over the hours, added more until requests for fills stopped. It was so bad that at one point an op told me to check my macros because my "KS" fill was not sending "KS" - which I thought was pretty funny because I had about 1800 Q in the log at that point and if the macros were wrong, that issue would have caught me a lot earlier…"

Dave K6LL (sixth USA, by the way) "…some people complained that my state (AZ) was not printing. That's a weird problem that will be hard to diagnose, but I'll work on it. I'm using AFSK, so it's hard for me to imagine what could go wrong there."

And Barry K6ST on the N1MM+ reflector: "Out of 77 qsos in ARRL RTTY RU there were about 5 qso's decoded here where the State exchange has special characters. My local friend transmitted in the most recent 2tone version 2.5.10 I decoded consistently his exchange in n1mm / mmtty as 599 ,; ,; even though he sent 599 NV NV. And I decoded on my ic7300 rig 599 NV NV even though I decoded in n1mm / mmtty engine as 599 ,; ,; "

So what is going on? Some shifty business?

The creator of 2Tone David G3YYD reported he recently made a change: "2Tone assumes everyone is running UoS [Unshift on Space] and as far as I know MMTTY is the only one that doesn't do this without the operator setting UoS on. So the fix is simple if using MMTTY turn UoS on. To send a letters shift after every space character is a huge waste of time over the course of a weekend contest."

Rich VE3KI countered: "As best I can tell from the posts here, including David's, the current version of 2Tone is removing the <LTRS> shift after a space even when that <LTRS> shift is logically required, on the assumption that the receiving station will have UOS enabled and will re-insert the <LTRS> shift automatically. The radio displays that I am familiar with do not seem to have any way of enabling UOS as far as I am aware. They simply display the messages as they were received, without inserting the <LTRS> shift that 2Tone is apparently depending on the receiving station to supply.

"But in this particular contest, the LTRS shift is not because of UoS; it is an integral part of the

exchange. If you want to turn transmit UoS off, fine, but I don't think you should be leaving out shift characters that are an integral part of the original message and relying on the receiving program to re-insert them. Some people may be using built-in decoders in their radios that have no provision for implementing UoS on receive; by removing necessary shift characters you are leaving those people out in the cold."

Tim NØUI confirmed the issue with radio decoders: "Rich correctly identified the issue I had in the Roundup last weekend. I was just using the decoder in my KX3 for decoding the RTTY signals. I ran into a handful of stations that I would decode ONLY the STATE portion of their exchange incorrectly. In fact, the first one I encountered, I was watching his previous QSO, and the station working him asked for multiple repeats on his state."

Ron WV4P proposed: "I applaud your efforts on making it more efficient, and faster. However, even with the best of intentions ops using a very wide array of decoding and settings has concluded the idea did not work out. Nobody made more Q's because of it, obviously, a lot made less. Why not roll the change back and end it ? It was a great attempt, with merit, but it's not real world viable."

Fortunately, David G3YYD came up with a solution: "I have come up with a simple solution. To activate, uncheck the 2Tone menu Setup, Contest Mode and a letters shift will be sent after every space that is proceeded by a figures character if an alpha character follows the space. This minimises the number of extra letters shifts sent. However the downside is that some miscopied characters will not be corrected. This keeps the human interface simple - a 2Tone design aim. This will also make 2Tone compatible with those who like to use machines rather than electronics. This will be in the next version of 2Tone."

Now you know!

Overall Statistics

Let's first look at some stats before we get to the results.

Continent	Multi Op	Single Op	Total
AF	3	19	22
AS	10	411	421
EU	78	1515	1593
NA	41	931	972
OC	11	124	135
SA	9	98	107
Totals	**152**	**3098**	**3250**

Table 1. Log Submissions by Continent

Almost half of the total logs received came from Europe. Only 37 of the NA logs were not W/VE, with most coming from XE. The bulk of the Asia logs were from JA as you might expect, with UA9 and BY in distant 2nd and 3rd. And of the 22 logs from Africa, fully half of those were EA8. Here's the Europe Top Ten logs submitted, with DL and I dominating.

DXCC	Multi Op	Single Op	Total
DL	10	256	266
I	10	200	210
UA	1	105	106
SP	3	92	95
EA	2	82	84
G		81	81
PA	4	67	71
F	5	55	60
UR	4	53	57
OK	4	41	45

Table 2. Top Ten Log Submissions from Europe

Here's an interesting thing about Single Op All Band entries. High power entries lean heavily towards Assisted while Low power entries lean heavily towards Not Assisted. I would have expected the opposite. And for QRP, Not Assisted also dominates.

Power	Assisted	Non-Assisted	Total
High	508	285	793
Low	504	854	1358
QRP	28	59	87
Totals	**1040**	**1198**	**2238**

Table 3. Single Op Logs, All Band, by Power

The same distribution shows up for single band entries.

Power/ Band	Assisted	Non-Assisted	Total
HIGH	153	107	260
10M	51	36	87
15M	45	33	78
20M	34	23	57
40M	15	11	26
80M	8	4	12
LOW	177	345	522
10M	57	105	162
15M	49	96	145
20M	36	86	122
40M	28	43	71
80M	7	15	22
QRP	31	47	78
10M	9	13	22
15M	8	17	25
20M	5	11	16
40M	4	4	8
80M	5	2	7
Totals	**361**	**499**	**860**

Table 4. Single Op, Single Band, by Power

If we look at Single Band entries by continent, Europe accounts for more than half the entries, with NA a distant third.

Continent	10M	15M	20M	40M	80M	Totals
AF	4	2	4	1		11
AS	63	69	15	8	2	157
EU	137	112	134	79	33	495
NA	32	40	42	18	6	138
OC	17	22	4	3	2	48
SA	28	10	10	2		50
Totals	**281**	**255**	**209**	**111**	**43**	**899**

Table 5. Single Op, Single Band, by Continent

DU1XX Single Band Low Power on 20 meters.

The Multi-2 crew at SZ1A, standing left to right: Sotiris SV1BDO, Nikos SV3SCW, Kostas SV1DPI, Cliff SV1JG; sitting with red t-shirt, Dimitris SV1CIB. Photo SV1DPI.

In the Multi-op categories, as you might expect Multi-Single accounts for over half, while Multi-Two and Multi-Multi split almost evenly. And we have 9 teams opting to try the new Distributed category.

Category	Logs
MSLO	45
MSHI	55
M2	28
MM	24
MD	9
Total	161

Table 6. Multi Op Entries

The Classic overlay seems popular! One-sixth of logs opted to turn off the assistance and claim their first 24 hours as Classic - but only 17 out 438 continued on to post a higher score for the full contest.

Continent	Classic	Rookie	Youth	Totals
AF	5			5
AS	54	4	4	62
EU	218	16	8	242
NA	129	7	1	137
OC	20	1		21
SA	12	1		13
Totals	**438**	**29**	**13**	**480**

Table 7. Overlay Entries by Continent

Over one-and-a-quarter million QSOs, not bad!

Band	QSOs
10m	303,503
15m	404,930
20m	317,386
40m	192,999
80m	64,622
Total	**1,283,440**

Table 8. QSOs by Band

Golden Logs

A Golden Log is an entry with at least 100 QSOs and zero percent score reduction. Here are the CQWW RTTY Golden Logs for 2025. In the ARRL RTTY Roundup the top log is usually around 400 QSOs, but here we have RTTY Machine Markus DL1NEO with a whopping (and exactly!) 800 QSOs and one-and-a quarter million points. Markus, what decoders are you using?

Call	Score	QSOs
DL1NEO	1,246,062	800
PAØCT	136,128	302
K2EJ	118,085	221
DL3XM	126,420	219
WD5FCA	94,272	219
W9VQ	112,270	204
JH4NJQ	96,660	183
HL3AMO	42,240	174
7S5S	40,828	161
JH3FUK	43,200	150
K6JF	35,239	150
JH2RIH	40,232	146
HB9FXU	34,077	143
HK6RF	38,916	143
OH8KA	25,912	141
CT1FOQ	25,666	132
HB2QRP	52,332	130
W4PF	40,344	127
S55VM	34,510	119
F1IKA	27,412	115
KO3O	30,926	113
VE2OWL	33872	112
OK2AK	13,440	111
NY7N	31,250	110
IU2JWF	30,502	107
DLØRDG	21,294	105
JE2DJC	23,250	105
WO2Y	21,280	105
AI5G	20,178	101
N9MSG	21,942	101
EA2FCW	12,354	100

Table 9. Golden Logs

Single-Operator All Bands High Power

First place in the world goes to IP4X operated by Gabry IT9RGY. For Gabry, “This contest started with an intense week of emotional challenges. Before to even discuss the contest itself, I want to dedicate this result to our friend Flavio IK1SPR, who passed away last week. I was questioning myself on why we do spend so much time in contesting and all preparation and things like that, and while a big portion of it could be ego and personal satisfaction, what I've got from Flavio was the camaraderie. If you grow as a person and as a contester in a safe environment, with positive mindset and the attitude of "sharing", then the ego will be balanced with all the positive atmosphere around you and your friends, and the magic of contesting will even be more tasty.” Indeed, Gabry, indeed.

Gabry’s target this year was to set a new Italian record in this category and test station upgrades. Looks like both were achieved and then some! “The first 24 hours were actually A BLAST. 20m never closed, 10 and 15 on fire and with the 3rd radio I was going around the band to

look for mult and QSO all the time. I must say the 3rd radio required some energy due to the not assistance. Probably having to watch the monitors all the time to read calls made me even more tired then if it would be SSB or CW." Then Sunday morning, "When 40m closed to US i took 30min break to sleep 20min (I know for someone doesn't make sense but it's a way to cheat my brain from sleep deprivation crisis), the bands were not so great and to be honest all Sunday morning I didn't feel loud at all." Time to change tactics, "Here it started a very challenging up and down on 3 bands to seek for points, even if 10m was completely full of stations, everyone was just pressing F1, while I wanted to make points!" Lesson heard!

Only half a megapoint behind in second place world (first USA) is Randy K5ZD, operating from his new QTH in Ohio. "Wow! What great conditions across all bands. I more than doubled my QSO and score goals. New W8 record. Not bad for a first big DX contest using SO2R from the new station." However, "A big gap in my station design was not being able to do SO2R on 10/15. Just had the tribander for those bands... I really missed 2BSIQ when 10 and 15 were open for 15+ hours. Probably cost a few hundred QSOs." There's part of that half a megapoint. Here's maybe the other part, "With 90 minutes to go, I had the tribander on the south tower pointed NW to work JA on 10/15. I was tuning 20 and heard a PY. I turned the 5-el 20 on the north tower to the South. I heard the front end of the K3 on 15m stop working as soon as I hit transmit on 20. The two antennas were 100' apart, pointing right at each other (on almost the same elevation). In many, many years of SO2R, I have never blown out a radio. Also, never had antennas this close together..." I guess 100' was not enough separation. (ed., I know which diode that is in the K3, I've replaced it a couple times.) One final note from Randy, "The quality of RTTY operating just keeps getting better and better. Nice that we can spread out above the "digital divide." We need to get all those FT ops to use their same setup for RTTY... The integration of 2Tone and MMTTY into Writelog is amazing. Sure nice to have two decoders running. Lots of times one would have perfect copy and the other was gibberish." You only use two?

USA Winner Randy K5ZD

Jeff ACØC was fourth place world (second USA) and continues the theme of great conditions: "Bands were between good to amazing, with 15 & 10 reflecting the sunspot activity. I worked some RTTY as high as 21170 at one point. Wall-to-wall Qs across the range." Then, we have the Irish guy, "Murphy pre-disastered me a few weeks back thanks to a fence post auger hitting a couple of hardline runs so this contest was the first serious workout for that (no problems found!!!). ... And at one point, with my initial move to 40m, I was stunned the band was so quiet and the signals pretty soft. But I was still working guys - it was not till several Qs later that I realized I had not actually enabled the RX antenna selection and then things got back to normal. My wife would say this is a reflection of my age but I'm blaming it ALL on Murphy!"

Tree N6TR operating as K7RAT (third USA): "Wow!! Fantastic conditions most weekend - although 10 meters was best on Saturday (no direct Europe on Sunday)." Tree managed eighth place in the world with, "...two K4D's - using the internal decoder and entered all the data manually into my logging software." Paper logging and dupe sheets next year?

Skipping for a moment to the Classic Overlay, Nick VK9DX took first place, with "...basically a friendly competition between my brother Brane (YT3D) and myself, each trying to do our best from opposite sides of the world. We both enjoy the Classic category—it's the only appropriate category for a fast-ageing contester!" Nick explained his Norfolk Island antenna situation, "...antenna height is restricted to just 5 meters.

(If you know a place with more restrictive height limits, do let me know!) On 40m, that means a four-square vertical array; a single fishing-rod vertical for 80m; a vertical for 20m; and two small Yagis — 4-elements for 15m, and 5-elements for 10m. Not much in terms of hardware — so the real challenge operating from here is staying motivated through the dry periods and enjoying the brief openings when the band does come alive." I expect that VK9 call is also good for a few dB. Nick also shared a couple highlights, "...being called by TF3VS on 10m. That path, over the North Pole, is unbelievably difficult.

Small curiosity: with 200K QSOs in the log over 4 years, I have only 8 QSOs with Zone 40!

The second highlight: CN3A at my sunset on 80m was just pure magic—a two-minute opening."

Speaking of brother Brane YT3D, who was less than 250k points behind brother Nick in the Classic overlay, "When you are 60 years old and your brother is 62, and your 83-year-old mother makes sure you don't fight in the competition, is it 'just' CQ WW RTTY or something more? And at the end brothers broke Eu and World records, and mother said: 'It's clear that I raised you well.'" Indeed she did, but I'm afraid you "missed it by that much." Better luck next year!

Just when you think setting up your RTTY decoders is all cut and dried, along comes Bill K2PO (fifth USA), "While the use of decoder diversity is not unusual in RTTY contests, I tried something new for me this time: using the K3's antenna diversity feature to listen to my frequency with two different antennas - one feeding audio to the left audio channel and the other feeding audio to the right audio channel. (I commonly used a Yagi and a multi-band vertical.) Sometimes 2Tone decoders listening to one antenna would decode one caller, while the identical decoders listening to the other antenna would decode a different caller, allowing more use of the logger's call stacking feature than I'd experienced before, with a small improvement to rate. (I ended up exclusively using 2Tone decoders, with Selective and Spread profiles. G3YYD has progressively improved 2Tone to the point where I never found MMTTY to be superior.)" As someone who tries to use call stacking to great effect, this is a great idea!

Short Takes

Mike WØMB admits he is, "a professional procrastinator and I proved it on this test. I think that if I would have planned my time correctly I could have worked a lot longer and made more qso's. Conditions were not better Sunday than Saturday. RTTY is the boss and FT8 Drools and FT4 Drools faster! Maybe next year I will have a better plan and a better antenna for 80 meters."

The couple that contests together... Dave KN2M: "We were so lucky with such great propagation. Super high A and K values within a week of the test. NM2K and I shared the station with two separate entries. She was SO(A)HP and I typically operate unassisted. The station is already setup for M/2 operation but we were never on the same band simultaneously. It was wonderful to share the station with her and we look forward to doing it again."

Tim N6GP operating at N6MXU, "had some issue where the ends of RTTY transmissions were getting cut off on receive for some stations. Often, their callsign was cut in half." Note to everyone, don't forget to add that extra space on the end! Also, "I missed the really good opening on 20m to Central Asia after midnight. However, I was thrilled to work EX9A for a new RTTY country."

Jim W5AP (eighth USA) made his "...first test with a new Flex 8600M. SO2R is a blast, happy to work 24 hours, 10 was really rocking, ate a lot of junk food."

Finally, Dick WN7S said, "Lotsa RTTY bugs in my shack... [ew] but lots of fun..."

Single Operator All Bands Low Power

Refuting the common wisdom that life is too short for low power RTTY, VE3DZ racked up an impressive score: "I was after the Canadian SOABLP Record of 3,977,680 points set by VA2UP in 2011. I spent almost 44 hours in the chair doing full swing SO2R, the conditions were pretty good, but I couldn't come even close. I was short of some 700 Q's." Yeah, but first place

in the world for Single Op All Band Low Power is not too shabby!

Way down in Costa Rica Charlie TI5CDA operating TI5K came in second, noting RTTY is a, "Very interesting mode, i have never operate RTTY until now, Took me Thursday and Friday to find out and set up correctly the IC-7610 with the required softwares (Thank you KØPIR for the YouTube videos)." Good job!

Sam LY5W is an inspiration, placing third overall in the world, and FIRST in the Classic overlay. Now let's read his story: "When I was diagnosed with kidney cancer, I had no desire to even think about contesting or DX. After successful surgery (one of my kidneys was removed) while still in the Clinics, I started making plans. The plan was very modest. Just to participate, calmly, without fatigue, stress. I chose CLASSIC, because I can't do SO2R anymore due to severe pain. I just sit comfortably in a chair and participate with minimal movement. I took a lot of breaks, because CLASSIC, only 24 hours. But I didn't really manage to fall asleep, I just lay down. I rested. When half the contest was over, I saw what was missing, I mean multipliers. And I started to create a second plan. Lithuanian record, or maybe a million points? Everything worked out. Even the European record fell." Nice work, and congratulations on your recovery!

Stefano IZ3NVR operating IZ3KNK, placing fourth in the world, enthused, "What a weekend! RTTY is not my favorite mode, but I wanted to get my feet wet in a "serious" SOAB LP effort from the station of a friend, the owner of the callsign I used (thanks, Max!)." Then came that Irish guy, "Murphy hit: the house mains kept tripping, forcing abrupt stops and computer reboots. After a short break to troubleshoot, I discovered the issue was outside. Recent heavy rains had flooded an underground well along the electrical path, causing an intermittent short and tripping the breaker. I had to dig open a couple of manholes before I managed to isolate the outside circuits, I was back in the game. If I don't get to do some work during a major contest I'm not happy, it seems :)" Whatever floats, I always say! "With a more equipped station and better nap planning I could have squeezed out more, but I still consider it a win. With a station equipped basically with a three-bander and wires I get to claim a new Italian record (with a good 30% margin too over the previous 2014 record), and I'm super proud of that. Who would have thought…Low Power and RTTY… crazy, isn't it?" Indeed.

Short takes

Zik DK8ZZ (eighth place world): "What a great contest from my small station! …my plan was to beat national record in Classic LP (which was not too high - 650k), and at the end I was 200k over European Classic LP record. LY5W did fantastic job and claimed World record in classic LP… The most surprised QSO was KL7SB (1st call!) on 40m with huuuuge signal, decoded over 2h long here in EU."

Kent KH6CJJ (ninth place world): "Wonderful contest with great conditions and participation! My personal best in RTTY, my favorite mode."

Jerry AB5SE (fifth USA): "Last year I operated with a wire (EFHW) and had less than 200K points. Operating from a small/medium size city lot makes things challenging but still fun. I decided to operate SOLP unassisted with the Classic overlay. Nearly 850 contacts and a claimed score of 644,000 is better than I could have ever anticipated."

Brandon KØBH: "First time trying RTTY! After working out the software issues I managed to run a frequency for an hour or two. Sorry to the Italian station on 15 that was trying to work me when everything crashed!"

Debra N9SJ: "A falling oak tree took out power to our area on Saturday night so I lost a lot of 80m….still got my best score."

Tom NN7O: "That's the most fun that I have ever had in a contest . . . great conditions, new (to me) hex beam antenna worked great. Even at 100 watts the whole world was hearing me."

JR W6JBR: "Since my shack is under renovation, I used my backup daily driver - my classic Kenwood TS-940SAT - purchased used in 1995 from the original owner. It was stored for nearly a decade before I got the chance to finish a refurb, and update the rig, about 3 years ago. It is now part of my backup shack… Signals were

clean and clear with no QSB, and my barefoot signals to the 31-foot wire vertical were heard, with little need for repeats."

Dariusz VE3BR: "Was planning on using HP. Unfortunately, my amplifier refused to work. Looks like it might get more than "gentle persuasion" to get back to life. As my uncle Joseph used to say, "when you don't have what you like, you like what you have" and soldier on... As usual, it's the emptiness of a giant arctic ice floe out there... when you are running low power to a vertical." A perfect Canadian metaphor!

Single Operator All Bands QRP

Not a lot of chatter posted for QRP Unassisted. Bill W8QZA operating W6QU placed ninth in the world (second USA) with almost a quarter million. "I had a glitch in my set up where decoding was very poor. So I got a 3 hour late start before finally figuring that the computer was listening to its built in microphone instead of the input line from the radio. In the end, diagnosing this problem and getting it all working was one of my high points of this contest! Thrills in this hobby can come in many different ways." If QRP isn't challenging enough, "Saturday had a lot of interruptions with grandson soccer games, grandsons stopping by, old friends choosing contest time to call and chat, and the Blue Angles flying their F-18s at full throttle a few hundred feet over our house." Zoom! In the end technique wins, "My best Q was getting ZD7BG on 10M out of a big pile by tail ending. Getting V55A on 20 on Friday evening was a close second."

And Mike K5NZ (third USA) sums it up: "Condx must have been really amazing for me to work that many 3pt'ers Q power with my crap antennas! Some really good ears out there!!"

Single Operator Assisted All Bands High Power

Bill ZF2SS on Cayman Brac placed eighth in the world. He gives "A big thanks to Stan, ZF9CW for the use of his house and antennas! RTTY contesting is tough on equipment and I'd rather risk my stuff :) I operated the same 40 hours as last year (the first 26 hours straight, an 8 hour rest, then 14 hours to the end) and had almost the same score." How's that for consistency?

KO7SS operating ZF2SS. KO7SS photo.

S51FB operating S53M took sixth place in assisted high power. "After several years I again participated more seriously in the CQ WW RTTY contest. During this time the S53M location also received a major technical upgrade." He adds, "Before the contest, thanks to the available documentation, I realized that the RTTY contest with N1MM can be conducted with a mouse, at least most of the communication between the fingers and the computer." I think we might all remember that moment when we realized the mouse was our friend.

Nick KTØW operated WØSD. This was his "first full-time effort in a major contest as a single op." Nice effort, almost making the top ten (and third USA)! An effort that came down to the wire, "This is the first contest that all antennas have been in a functional state since a derecho took down two towers, shredded elements, and destroyed dipoles back in 2022. Straight line wind speeds were recorded at speeds over 100mph. We are overjoyed to see everything working well! The final antenna was the 40m 3el Yagi, which we finished refurbishing just 3 days prior." How did I go through life this far not learning the word "derecho"? I think I should be thankful!

Also almost cracking the top ten was John GMØOPS operating MM9I: "Condx really good with a really good amount of activity... It looks like I have smashed the GM record which am happy about." Indeed you did.

Steve KL7SB declared, “As the kids would say, ‘I'm back, bitches!’" With that, “First contest in two to three years, where I had enough energy and concentration to "get in the zone" and put in a real effort. Had forgotten just how much fun that is! It's also a big personal milestone for me. There was a time I wouldn't have believed anyone, if they told me I would get back to this point. I am so stoked for the upcoming season.” Welcome back, OM!

William N6RV “…started 2 hours late intending to be casual. I started with 100 watts. Then things really got interesting and I was pulled in. It was amazing! Huge signals from Europe from the West Coast on 20 meters all contest! 10 & 15 were exceptional as well. 40 not so much. My body would not allow me to do my usual 40 hours so I have to take what I can. Still, this is the first time I really went for it in the CQWW RTTY contest and I broke 1 M points!” Not too shabby!

Bert N4CW was delighted: “What a delight to open on 10 Meters Friday night and find Europe! Wow, that hasn't happened in a long time! Then to find 20 open to Europe at 5 AM on the following day!!! I wish I could have spent more time on the bands all weekend, but life gets in the way of my hobby! It was also a delight to work a few African stations…I wish there were more!” So do we!

Rick N1RM thinks “I may have been technically a "Highly Motivated Operator" since I operated at two different stations. However, since I did all my operating from the comfort of my office in the condo, I think the best that I can claim is "Moderately Motivated Operator". W4RM was kind enough to invite me to join his team remotely operating his fabulous station in North Carolina and I managed to put in 11 hours there. Conditions were so great that at the end of each shift, I couldn't resist switching the remote desktop and K4 connection over to my own shack.” He adds, “Anyone who says RTTY is dead should look at this contest. …20 and 15 seemed to have an endless supply of folks answering my CQ's. As AI2C used to say "It was like shooting fish in a barrel!" This cycle sure had plenty left to give this weekend.”

Tom K7QA: “The pileups needing the MT mult especially on 15 were almost embarrassing. But it sure is nice to be wanted.”

Kari OH2XX signed up to operate OHØZ because “OHØZ needed to show up, since there didn’t seem to be much other activity from the neighborhood. No competitive ambitions here, just a multiplier delivery service with a side of good vibes.”

Bill W7II opined, “Finally a great weekend for CQWW RTTY. The bands were in great shape.” But… “Weird things always seem to happen in RTTY contests.

Weird thing #1

I began calling on 20m Sunday morning and had a pretty nice run going. I looked at my amp and it was offline. I was running with 40 watts. I guess my antenna performs better than I thought.

Weird thing #2

I was running EU stations on 15m Sunday morning and I was called by SN3A and SN3C at the same time. I run 4 decoders and I was seeing those two calls all over my screen. This can't be true. I work SN3A first and SN3C is still calling me so I work him. Coincidence? I think not. I think there are some very devious pranksters in Poland.

Weird thing #3

Also on Sunday morning while running EU stations on 15m and I was called by two YB stations at the same time. I definitely wasn't expecting that during an EU run.”

And Mike K9NW, “A little diddle for a few hours Saturday evening. A little more diddle for a few hours Sunday morning.”

Single Operator Assisted All Bands Low Power

Dimitri F4DSK operating TM3Z placed first in the world in assisted low power with a record setting 5,469,384 points. It’s a good thing then that his “goal was to beat the world record in this category. Given the propagation observed during the previous week and with no geomagnetic disturbances, it was clear that this was the year not to be missed for this objective; otherwise, I

would probably have to wait for the peak of the next solar cycle to try again. So, as usual, I decided to stay QRV as much as possible and focus on hunting for multipliers and 3-point QSOs." I think the plan worked! But then, "Sunday afternoon, around 13:00z, I suddenly couldn't manage the switching of my antennas based on the directions and TRXs. What's more, I fell asleep while making contacts and no longer understood how the station worked. So I decided to stop for 20 minutes, which allowed me to sleep for fifteen minutes. When I woke up, and after 5 minutes "of restarting the man", my brain was functioning normally again, and this continued until the end of the contest." Nothing like a good power nap. "In conclusion, it was a real pleasure to participate in such conditions ! I never would have hoped to contact so many multipliers. I've never finished with 60 US/VE in this contest, and yet it was done on two bands this year. Incredible! Wow, my goal, set at 5,400,000 points, was reached and far exceeded, with exactly the same number of QSOs as last year, but more multis. It's going to be a real challenge for me to do the same thing again in the future."

Fifth place world (second USA) Don AA5AU "was having so much fun, I didn't want it to end. Band conditions were great the entire contest except maybe the low bands were kind of flat Saturday night. Don felt "fortunate to be able to operate at all. I wasn't sure I was going to be able to do an all-band SO2R effort. Earlier in the year, a friend gifted me a nice M2 six meter Yagi. I have been chasing the Fred Fish Memorial Award on 6 meters and only need a few more to have all 488 grids in the continental US. I never had a decent six meter antenna so I was eager to install this monster 6M8GJ Yagi. In order to install it I had to remove my Cushcraft D40 forty meter dipole and 2-element SteppIR yagi off my 35' tower. The 6M8GJ, built to only six elements, went up in July (I know - I was late). I only worked one new FFMA grid with it but it was fun to have a nice 6 meter antenna. After e-skip season, I took it down in order to get the other antennas back up for CQWW RTTY. I just did finish that job last weekend. It was a lot of work and not easy in the hot Louisiana summer sun... after WPX RTTY in February, the antennas will come down and the six meter antenna will go back up! I still need 5 more FFMA grids." Good luck!

Ian GWØKRL operating MW9W: "Wow conditions were amazing this year, however Murphy visited just when things were getting interesting!" Go on... "10m was on fire and it reminded me of when I was first licensed 37 years ago and I thought the band would always be like that Hi!" And once again, the Irish guy - and sleep deprivation! "However Murphy was biding his time. Unfortunately for a couple of weeks prior to the contest I had been pretty busy at work which had obviously taken more of a toll than I realised. By 16:00 Sunday I was struggling to know how to work my station so decided to take a break to recover and set my alarm for 1.5hrs...

I came to at 23:45 still sitting in-front of the radio with headphones on... I can tell you much bad language followed! ...Still I made my best score ever, trying to be positive and ignore I might have beaten my Country record... Could'a would'a should'a ZZZZzzzzzzz." Now I want to hear what cursing sounds like in Welsh.

John W4IX had a near top ten world score (good for fifth USA) in his first RTTY contest: "A few weeks ago Levi, K6JO, was asking if I wanted to op in a RTTY Contest someday. I was game knowing he was an op at the WV4P station. I knew it was too late to join the team so I figured why not try to get on myself." John had recurring visits from the Irish guy, "I went to the shack 30 minutes prior to the start and things were not working. I got it figured out about 5 minutes before the start and even worked VK9DX on 10 meters 2 minutes before the start. I decided to wait and try him at the start, which NJ4P got him first, me second... Then at 15 minutes after the start my FFT/Scope window went blank. Took about 30 minutes to get it back, then it happened again and I lost an hour. It wasn't until 0300 when it finally stayed up and I got a nice run going... after the 28 straight hours I lost my FFT/Scope again. This time I couldn't get it back and decided to pull the plug. I tried resetting everything. Even downloaded new MMTTY and 2Tone but that didn't help. Tried new USB cable and troubleshot my soundcard. I am very

satisfied with my first time RTTY effort." You should be!

Jack WA7LNW in Utah: "Outstanding conditions with strong signals on all bands. I traveled to the remote site earlier in the afternoon and placed a box fan in front of the KPA-500 for additional cooling. I was all ready to top my previous CQWW RTTY scores." And then the Irish guy showed up, "When suddenly Murphy and Mother Nature had a different plan for me. Strong thunderstorms began building over the area. Suddenly, just one hour prior to the contest, the remote site lost electrical power. Rocky Mountain Power's online outage map indicated over 1,000+ area customers were affected. Once power was restored, I lost connection to the K-3." What to do? "With no access to the remote site, I quickly configured a SignaLink and K-3. Connected them to a modest inverted-v fed @ 30 ft. with 450 ohm twin lead and LDG antenna tuner. I was pleasantly surprised just how successful this combination was in making EU DX contacts on nearly every band. Looking back through CQWW RTTY logs, I saw thunderstorms had forced me off the air nearly every year during this contest."

Short takes

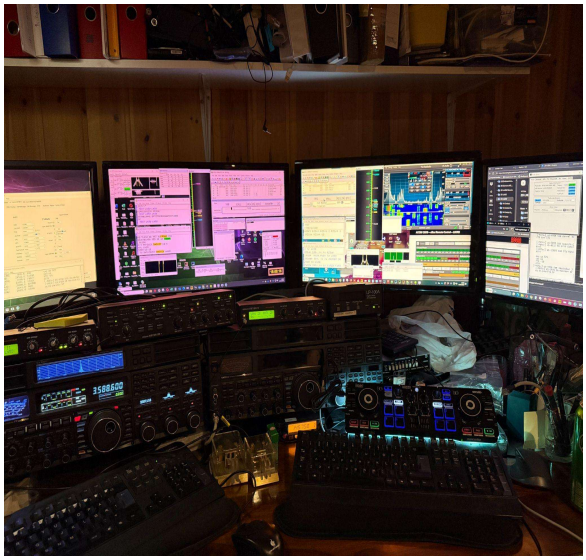
Another first timer, John WJ1U (eighth USA): "Made my first RTTY contact earlier this week trying to get set up, so I had no real idea what I was doing. My only real goal was to try out a new mode. It was a bit of a struggle, but it grew on me a bit over the course of the weekend. I definitely improved as I went." Indeed, with a score over a million points!

Michael W4RN: "Being an Octogenarian, my BIC ain't what it used to be, but I did hit my 300K pts. goal for my PVRC contribution. Nice condx and I had a great time, despite an antenna farm that is falling apart. No working 40 or 80 M antenna. 20M 5 el yagi works fine. 15M 5 el yagi stuck on Africa. 10M 2 stack of 5 el yagis is a bomb but can only be pointed to EU. It's like driving a BMW 750il on three flat tires. Still, lots of fun."

Single Operator Assisted All Bands QRP

WQ6X (second USA) operated WA6TQT remotely. "The band condx. were a AMAZingly AWEsome - my only regret was no access to the radio for the 1st 5-hours and then the off time on Saturday due to a CQP presentation for the Amateur Radio Club of Alameda (ARCA)." The NCCC thanks you for that! "Having access to Stacked Yagi's on 40 - 10 meters and an 80-meter 4-square vertical array made WQ6X's QRP signal sound like 200+ watts." I bet!

Single Banders



LN5O also DJs weddings when he's not entering Single Band, 20 meter, High Power. (LB3RE photo)

Let's start with a QRP entry. Peter ON8GA placed first in the world unassisted QRP on 80m. "I had hoped to win WPX RTTY on 40m this year, but unfortunately, I finished a distant second. It prompted me to return to an old love: 80m QRP. Given the moment in the cycle, it might not be the most enjoyable choice, but the drive to win a plaque prevails." Peter reminds us that even if you are working towards a single band entry "...for fun I was active on the other bands with 100w during the off-peak hours. It seemed like the best of both worlds." Continuing: "The start of a contest is immensely important, and this time was no different. The rates for the first three hours were 38, 24, and 21 QSOs/hour. This gave me a good feeling. Even more so, I quickly felt the multiplier numbers were quite good, as they quickly approached last year's numbers. I got an even better feeling when I managed to log a few Americans and a Canadian. With 5W and on 80m, it remains a feat. The morning shift ended with 20 more QSOs than last year, 140. Unfortunately, the fun on 80m was a bit over after that." The cause, sleep deprivation. "The

other shifts were difficult, and I also made a bad choice about sleeping on Saturday. I didn't get enough sleep during the day, and that really hurt me during the night from Saturday to Sunday. I struggled early on, managed to postpone the breakpoint for six hours, but around 4 AM, it was unstoppable. I hardly worked anyone anymore and then went to sleep for three hours. I might have missed some USA or DX in the meantime. It was a good lesson for CQ WW CW anyway."

Marin E7ØY's "...rough plan was 150,000 points, 700 Q's, 70 countries, 15 zones and 35 US states. I didn't push too hard, let's just say I did well enough to switch plans and that's enough for me and I'm happy. Unfortunately, no one gave me any motivation on the live score, I don't know why it's a problem to click another check mark to make it more interesting for all of us?" You still had motivation enough to place second in the world in unassisted low power on 40m!

Another second place in the world, this time assisted high power on 15m, Mac SP2XF operating SN2M. "RTTY contests are very unique in the recent times: 3rd time in a row (after CQWW RTTY 2024 and WPX RTTY 2025) conditions were simply great both days. No aurora disturbances, no geo storms etc. Solar flux around 170 looks like 2nd peak announcement. My personal feeling was this is the year when people will focus on 15m (like it was 10m in 2024) and seems I was not wrong. Band was extremely crowded, great activity."

Steve AA7V says "Hooray for 10 meters." - on his way to 6th place unassisted high power (first USA). On the subject of high power, "Drug the old SB220 out of the closet again for more 10 meter abuse. I have been using this amp for SO10 lately to see if it will ever quit working. I don't even recall when I bought it, must be at least 20 years old. Put 50w in and I guess a full gallon out. Antenna is 2 active elements on a C3SS at 10 meters."

Chris N6WM operated at K6LRG. A planned Multi-Multi at N6RO fell apart, "So... what to do.. Wanted to keep the same general BIC commit so decided to do a SOAHP 15, from my hilltop station that enjoys better low angle signals particularly to EU. Overall the 15m band was in fine shape, only real prop difficulties I had was a tough time working Zone 38 odd since we usually have a pipeline on 15, V5 was on for a short time Sat and I had an unusually hard time getting the qso and he was weak here... Otherwise, EU was open both days, with hundreds of stations worked.. until I chose to move my single 4 element beam to JA. JA was off the hook at contest start, had a wonderful run." Good for first USA!

Speaking of... Ken N6RO "...did not plan to do anything serious, but, you know, I got sucked in and did a major BIC effort. 80m condx were nominal for this time of year, with little prop to EU, T-storm QRN, etc. But, I did get one EU and several zone 33 mults. Not much from OC, but was surprised by VK9DX responding to my CQ around 07z Sunday. Fair prop to JA, logged 25 friends there. I now enjoy RTTY contesting more these days, as my 88 year old brain fades, auto decoding works for me. Just run that mouse around the logger windows." Ken added that "...a few cups of SAKE helped in the JA run!" First USA.

Cort K4WI, who just missed a top ten world finish in assisted high power on 10m (but first USA), "decided to give this contest a serious effort to check out how well my new 2K-FA amp would work out. But turned out to be somewhat hampered by my antenna rotator not working and stuck due North." Yeah, that'll hamper you! "Worked fair for Europe and Asia and South America off the back but gave up some mults toward Africa and VK/ZL."

Bob K8IA, operating assisted high power on 15m as N7AT, also just missed a top ten world finish (but second USA), because: "Unfortunately those of us in the Phoenix area experienced what was probably the worst monsoon storm of the summer. A high volume of widespread lightning strikes, 60 mph winds and 2+ inches of quickly deposited rain reported in some areas. For me, it meant disconnecting antennas a bunch of times and losing at least 3-4 hours of runnable band. That hurt the score but truly no regrets as the cndx were so good. My score ended about where I thought it would be if I had more hours of effort."

Neil AE1P, also assisted high power on 15m (fifth USA), reminds us "Happy wife, happy

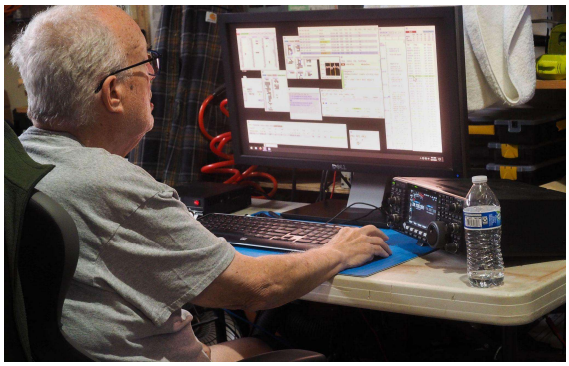
life…that was the theme of this contest…no Saturday operating as I had committed to a project for the XYL… But I tried my best to make up for it with some operating Saturday evening & all day Sunday…It seemed at times like the whole world was on 15m…I was copying stations all the way up to 21.170… Wow!!… great to see the turnout in a big RTTY test."

Multi-Single

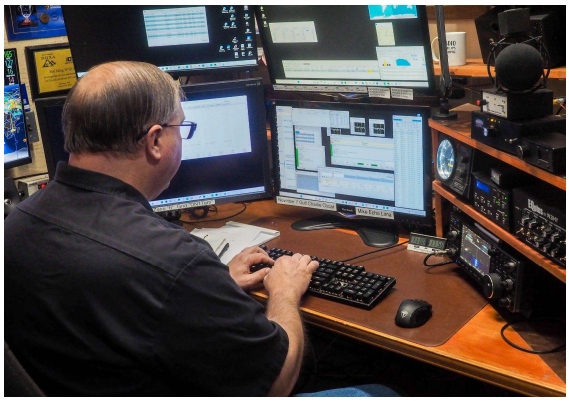
First place world Multi-Single low power at WP3C: "Thanks to Paul NP3Y, Steve W9SN, Gary W2VQ, Fred WW4LL, Jake WV4AM, and Rick WB8JUI for their excellent work and for making the MS possible together with me. Everyone operated remotely (via Anydesk and Rustdesk), while I (Alfredo WP3C) was at the station. On Saturday afternoon, a thunderstorm arrived but passed quickly, so we didn't have to shut down…"

On the other hand, the team at third place Multi-Single low power VE3EI (Shel VA3AA, Rudy N2WQ/VE3EID, Ian VE3JI, Dennis VE3WUE): "What made this one extra special was that we operated together in person rather than remotely. There's just something about sharing the shack and collectively cheering when a tough mult finally goes in the log. Radios and software make the QSOs, but it's the human element that builds the team spirit and turns a contest into a memory… Low Power operation requires its own techniques. Timing on a RTTY call becomes everything. Worked a surprising number of weak stations by calling at the right time. Running most of the time produced a steady 40–50 Qs an hour—not spectacular but needed for the score. The mult station stayed busy working (what else?) mults. We never seemed to run out of mults to chase, although it was hard to hear many of the spotted stations."

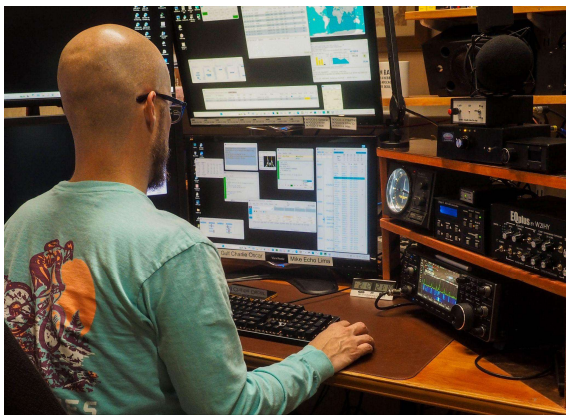
Similarly from tenth place world low power (second USA), N7GCO: "This was the first time all five of us, Mel N7GCO, Randy K7TQ, Jay WS7I, Jay AC7DC, and Brandon W7BKS, had operated together. We got great runs to JA, as we always do from eastern WA, plus good runs to EU, which we don't usually get. The RUN station was on all 48 hours with the MULT one off the air for two hours in the middle of our Saturday to Sunday night. All of us enjoyed the weekend."



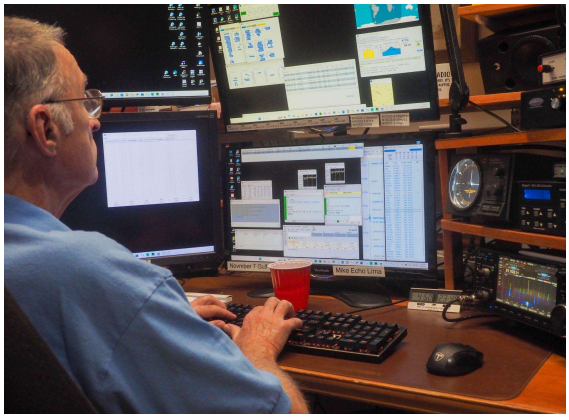
WS7I operating N7GCO



AC7DC operating N7GCO

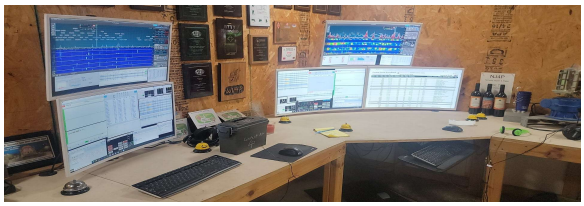


K7TQ operating N7GCO



W7BKS operating N7GCO

At the high power effort at AD4ES (Chuck AD4ES, Scott W4SO, Ken N8KH): “This year we used both MMTTY and 2Tone decoders. That was really nice. We also set things up so right click same as ENTER. WHAT A TIME SAVER!! Try it you'll love it! You hardly have to use the keyboard! All Mouse!!” Yee haw! (Third USA)



The remote ops at NJ4P, from left to right: VE5MX, K6JO. (WV4P photo.)

Multi-Two

First in the world NJ4P, was hosted at Ron WV4P’s superstation in Tennessee (Levi K6JO, Einar VE5MX, Ron WV4P, Juan AC6ZM, Carson AA4CS, Howard K4HWS, Cody NN5SS, Randy WK9M, Trina NR4L). Says Ron, “WOW what a weekend. 15 minutes into the test we had a major failure, thankfully I was able to drive to the station, diagnose and fix it… No other major issues over the weekend… But a Ton of Fun. Spending the weekend with some of the best ops in the world and pushing each other to be better was over the top. Nobody did any Dumb S*&T which was a welcome change :o) As the station matures and the ops gel we are able to reach new levels. I can't wait until the towers we stacked this summer have antennas on them so we can hit full stride.”

The crew at NJ4P. (WV4P photo)

Second place world, P49X transitioned from a Single Op to Multi-Two (Ed WØYK/P49X, Roger N4RR): “Roger and I had a great time taking turns running 3BSIQ in the M2 category. The station played well, and the ops did “OK”. On the other hand, local band conditions were mediocre.” As usual, Ed puts a wealth of operating insight into his 3830 posts so I’m going to let him speak for a little while.

“I set up three K3/P3 rigs in tight proximity so one operator could readily access all with little movement. The configuration is networked PCs/UIs on each radio. The keyboards are full size without the number pad, so they fit easily in front of each radio along with a Kpod tuning knob and mouse. Unfortunately, I use a left-hand mouse on the left radio and right-hand mouse on the right to minimize the clutter in front of me. Roger hasn’t practiced ambidextrous mouse operation so we had to change the left/right mouse parameter each time we changed ops. I hadn’t thought of that ahead of time and it was too late to devise a better solution.”

WØYK doing his best Keith Emerson imitation at P49X. (N4RR photo)

"I deploy KD6X's RigSelect PRO to instantly move the headphones to any pair of the 3 radios, by tapping one button on the front panel. The firmware has a versatile audio mixing scheme that allows another button to mix in the audio from the third radio to one of the main 2BSIQ radios at any time. Finally, what I think is the most beneficial feature, is Courtney's method of audio isolation eliminates any hum/noise from ground loops. Reverend Jim Brown, K9YC, would very much approve of this design. This is the first experience I've had with connecting a lot of audio cables between several radios without any audio artifacts.

"This setup provides excellent flexibility to monitor and instantly move between three primary bands at any time. Multipliers can be picked off on the third band, subject to the band change rule. Problems can be mitigated such as when a neighborhood noise source suddenly appeared on 15m Sunday night, wiping out any copy at all. We tapped one button on the RigSelect and were instantly running on 40m instead.

"As competitive Multi-Two goes, ours lacked today's necessary in-band capability and additional operators to chase multipliers. While we've done some in-band in CW and SSB multi-ops, it is rather complex to set up here and more than I wanted to tackle this trip. That surely would have increased our poor multiplier totals, but unlikely to compensate for our band conditions.

"Dividing the M2 operating between two ops who alternately run both radios, while the other op rests, gets more attractive as I age. We were able to dynamically trade-off operating and sleep/eating/etc. Both could operate at peak times, but at a minimum, each is responsible for only 24 of the 48 hours. Sort of like Classic Overlay but without the restrictions of single radio and no Assistance.

"I thought it would be great to not have the SO2R radio interlock but discovered in practice that it is hard to take advantage of that after many years of developing skill at managing the interlock. Ideally, I would operate as if separate operators were running each radio which should increase the run rate. Not so easy, as my brain is now hard-wired to wait for the other radio to finish transmitting. Another skill to build and while I made progress this weekend, I often left a lot of unnecessary dead time when radios could have been transmitting. Conversely, now I wonder if doing this type of M2 will sabotage the SO2R timing skill I've built over the years. In any case, I enjoy new challenges.

"Perhaps the biggest satisfaction for me was the excellent work-around we had for the inter-station RFI that has rendered 2BSIQ and multi-op very compromised at this location. Right under our close-spaced towers, on a city lot, is the next-door church's huge metal roof with countless diode junctions from all the fasteners. We hypothesize our transmit signals are being re-radiated on harmonic bands. The result is wide-band RFI that raises the noise floor up to 20dB at times, making it impossible to copy any but the very few super strong signals.

"The work-around was a simple wire fan dipole for 80/40, located on a temporary 42' SpiderPole about 350' from the towers/church. By transmitting on this antenna, there is ZERO RFI on the harmonic bands. As expected, there is the actual harmonic but without the other RFI, we could operate up to 5 kHz away. We added that coax to our switching system of StackMatches and SixPaks so that we transmitted on 80 with it when we were also on 40 and used it on 40 when also on 20. Operationally, we simply avoided being on 20 and 10 at the same time.

The surprising finding was that the RBN reports show it down only 1-2 dB compared to our main

80m Inverted-Vee at 60'. On 40m we are only down 4-6 dB compared to the 2-element Yagi at 80'. This is a very acceptable trade-off for eliminating the pesky RFI. Thanks to John W6LD and Chad WE9V who first Beta-tested this solution at 32' in February 2024."

N4RR finishes up some rewiring at P49X. (WØYK photo)

K9CT (Steve AI9T, Tim K9WX, Mike W9MR, Larry KT9L, Steben N9CK, Craig K9CT) was third in the world and second USA. From Craig: "Propagation conditions up until Sunday were quite good. It was apparent overnight Sunday that propagation was changing and not for the better. We set our sights on breaking the 2024 score. All the multiplier categories were broken but not the total QSO number. Our score is about 1 million higher than our PR so after log checking we should have reached our goal. Our highest rate was the 1200 GMT hour on Saturday of 240! [Zowie!] No rate over 100 in the last 24 hours. Thanks to all my teammates that drove here, brought food and operated as much as they wanted. You are appreciated."

K7BTW (Richard K7BTW, Adam K7EDX, Anna K7ANA, Dennis WV7S) Seventh USA: "Amazing band condition for this contest. The openings to Europe on 10 and 15 were about as good as it can get. Saturday was the best with 15m open by 7 a.m. local time and 10m not much later. Conditions Sunday tapered off a bit, but still remained very good. Even our second station, using just a 2 element SteppIR at 35 feet, had no problem working everything, often breaking through pileups with ease… Our big problem was a lack of ops. That prevented us from keeping both stations on the air much of the time… Even though the lack of ops kept us from being competitive this year, the fantastic band conditions made this one of the most fun contests in a long time. Having fun is always our goal."

Operating at K7ZS was the KT7E team (eighth USA), along with that Irish guy, "Murphy was present on several fronts; hardware, software and operators. Ugh. In-spite of Murphy's efforts, Jim KI7Y, Phil WR7T, Sam WN6W and I Andreas KE7AUB at least did not manage to blow anything up. Murphy's efforts ranged from messing with the operators, to a 5-10 second power fail - forcing me to recover the station on my own for the first time ever, and then trying to nuke either if not both amplifiers. Probably cost us 3-4 hrs in lost operating time for one run station. Ugh. We put in 2.2 milskey points, not too bad considering the op time lost on 15 on Saturday and 10M being dead in to EU on Sunday. But we had fun."

Multi-Multi

First in the world CN3A (Jiri OK1DO, Petr OK1FFU, Vojta OK1GI, OK1HRA, Karel OK1JKT, Jiri OK1RI, Jan OK2ZAW, Vit OK5MM): "During our first RTTY in WPX we have seen a lot of problems inside. OK2ZAW have build 5 pcs of "tiny FSK" module with optically insulated PTT on nice SMD PCB in a tiny box – he has even contacted the author KØSM to get his permission and he said: "if you want to produce it - I am most happy since now nobody makes it". He has not yet decided but it might appear on his hamparts.shop website. It worked like a champ. The contest started – about half of the operators were total newbies to RTTY. We did believe that our location and 173 elements in the air will help to do the job." That's… a lot of elements! Then, I'm sorry but this is funny: "Remark for P49X. We expected he is SO and new [because] he is not tuning the bands so we were nice and gave him (and us) all 5 multipliers. Remark – it was 5-times us calling him – but I must say in all 5 cases an easy QSO." Moving along: "The most magical QSO of the contest – VK9DX on 80m, the sun was already well above the horizon and was shining – complete daylight, we could not beat the both EU and NA stations already and… he suddenly appeared very loud on LP ?!?!? It was OK1JKT who found him on a

dead band - who made in his “not too young” age (Being the senior of our 64 years in average group) his first RTTY QSO just this Saturday!”

IB9T (Peppe I8UZA Joe IT9BLB, Alfio IT9EJW, Giovanni IT9GAC, Sergio IT9MBZ, Joe IT9RZU, Vittorio IT9ZMX, Val IU3BTY, Salvo IW9FMO, Luca IZ5ICH) placed fourth in the world, from Joe IT9BLB: “After a solar cycle since our last time, we decided to repeat our playful participation in the Multi-Multi category. Despite our station lacking the necessary space and hardware, sacrificing space for hospitality and digging up some old radios and amplifiers, we managed to achieve our goal and had a blast this time too… even managing to improve on our previous score from 2011. What more could we ask for? We love this game!” Us too OM!

IB9T operating team. Top row (l-r): IU3BTY, IT9MBZ, IZ5ICH, IT9RZU, IT9GAC, I8UZA, IT9EJW. Bottom row (l-r): IT9ZMX, IW9FMO, IT9BLB. IT9BLB photo.

K1SFA at K1TTT (Khrystyne K1SFA, Michael K1MK, David K1TTT, William W1TO, Alejandro WI1U, Alex KU1CW, Tim K1DC, Eric WØEAS, Joseph KM1P, Stefano N9SM, CJ WT2P, Maz K1NZ) achieved fifth in the world (first USA). Says Khrystyne: “In the fifteen years I have been leading the team, this was our third-best finish. It’s true that in ham radio contesting, you only do well by working *with* your competitors; I’m not aware of any other sport in the world where this occurs. And to all of those who worked K1SFA — especially those who worked us on all five bands! — I thank you for the opportunity to be a part of *your* score.” The team “had a couple of new ops this year — including someone who had never really worked RTTY before. I usually start the contest on 40, and he was on the second set of headphones, watching and listening, taking in everything (you probably know that 40 at the start of the test can be absolutely wild!), but he learned quickly. I handed him the mouse at 0130 and told him to start running — and he did! He quickly caught the “RTTY bug” and was a demon on 20 the next day.”

KØOO (Patrick KØOO, Zory KB3VQC, Zachary KJ5BIN, Alan WA3EKL, Josh W3URL, Susan N3DPB), operated at WA3EKL, and placed tenth in the world (fourth USA), has a request: “What I am about to say is in no way a condemnation but instead much praise with a minor request at the end. First we would like to thank all stations that spotted anyone. Next we want to highly thank the following stations who spotted and did a tremendous job of spotting the entire contest. W3GRA, W3OA, KM3T, K1RA and WZ7I. You all greatly helped us find many multipliers. Thank you very much. The minor request is this. Before any contest please all of us should re-calibrate our transceivers master oscillator so that when we spot a station, the frequency we spot is the actual frequency the station is on. This prevents the S&P stations from constantly having to re-tune their VFO knobs to actual stations frequency to make the contact. It also prevents a CQing station from being constantly called off his actual frequency and him not being able to decode his callers.

“I called CQ and after a few completed Q'S I was spotted, but off my frequency. The numerous callers kept pounding away at the wrong frequency even though I sent "off frequency" numerous times. If I moved my VFO to their calling freq I would be responding back to them on a frequency they could not copy. The only way was to wear out my RIT control which I gave up on after about 3 calls. I QSYed to somewhere else and called CQ then got spotted correctly. I don't understand why the stations clicking on my incorrect spotted frequency didn't see I was not decoding on their screens but just kept calling.

“I will not call out a specific station because of the tremendous effort the above mentioned spotting stations put forth and we all benefited from their effort. Their spots ran from 120 Hz above the correct frequency to 100 Hz below the correct frequency.” Interesting - I do get called off frequency at times but not to this extent at all. And finally a food report! “Friday night dinner

my younger son cooked pasta with shrimp in an Alfredo sauce. Saturday night was a Beef, potato, carrot, onion crock pot stew simmered for 8 hours made by myself. N3DPB took a break this weekend! Both meals were delicious."

Multi-Operator Distributed

This was the first year for the new Multi-Distributed category. It allows a maximum of five transmitted signals, one per band at any one time, from stations in different locations.

Third in the world VE2CQ (Michel VE2PI, Dany VE2EBK, Claude VE2FK, Luc VE2FXL, Martin VE2NMB) had but one thing to say, "Operating from Zone 5 is not like operating from Zone 2."

Fifth in the world VK4SN (Alan VK4SN, Warren VK4FJ): "Wow, what a superb weekend of excellent conditions. Conditions so good that stations off the side of the beam were great also. VK4FJ and myself VK4SN entered the Multi-distributed category and managed 32 hours of operating. Working from our own stations connected via VPN worked flawlessly. It's a great way to work MM in the comfort of one's own home. (I worked 2 separate stations at my end with the 2nd radio picking up mults on the 3rd band.)"

Club Results

https://cqwwrtty.com/clubscores.htm

As is often the case the DX clubs dominated the overall results. The Bavarian Contest Club can raise a stein for their first-place finish, with almost twice the total score as the Italian Contest Club (who should raise a glass of Chianti for also getting over 100 of their members to participate!) Third place is the multi-national Interest Group RTTY, who gets the award for the most points per log, with only 29 members each contributing an average 1,526,419 points (I'm not sure what they are drinking) edging out the also multi-national Araucaria DX Group at 1,523,769 points per member.

First place for US clubs with 79 logs is the Potomac Valley Radio Club (might I suggest a toast with a crisp Virginia Viognier?) with a commanding score over the Society of Midwest Contesters with 47 logs. The SMC had slightly better points per log than the PVRC and could take the top spot with more logs. The rest of the top 6 also had better points per log than PVRC, with the points per log going to the Tennessee Contest Group contributing a whopping 1,082,928 points per log (whiskey, neat).

Records

Lots of new records for 2025, a total of 295 records set! Multi-Distributed made its debut in 2025 which generated a bunch of instant records at the World, Continental, and Country level. World records were also set in Multi-Multi and in 5 Single-op categories, including All Band Assisted Low Power. Asia led in new Continental records with 5.

Continent	New Records
Asia	5
North America	4
Oceania	4
South America	3
Europe	2
Africa	1

Table 10. New Continental Records

And here are the countries with 5 or more new records. In the US, W0 and W9 each also had 5 new records, as did JA1. Congratulations to all the new record holders!

Country	New Records
SP -- Poland	7
YT -- Serbia	7
DL -- Germany	6
OZ -- Denmark	6
EA -- Spain	6
OH -- Finland	6
TI -- Costa Rica	5
HB -- Switzerland	5
G -- England	5

Table 11. New Country Records

Plaques

https://cqwwrtty.com/results/2025_cqwwrtty_plaques.pdf

Top Scores – WORLD

SINGLE OPERATOR HIGH POWER

All Bands

IP4X (IT9RGY).... 5,345,718
K5ZD..... 4,894,188
SO9I (SQ9ORQ).... 4,716,568
ACØC..... 3,437,632
LB8IB..... 3,177,946
LX7I (DF7EE)..... 3,063,831
A61QQ..... 2,647,710
K7RAT (N6TR)..... 2,575,948
ZW2N (PY2MNL).... 2,521,584
VK9DX..... 2,394,522

28 MHz

HK1T..... 970,717
4X7M (4Z4AK)..... 651,168
DMØA (DK4EE)..... 551,880
EA7Z..... 291,006
YV4ABR..... 194,677
AA7V..... 147,719
JA1WSK..... 131,376
CT7AIX..... 130,002
CT1EAT..... 108,647
OK2BXW..... 85,760

21 MHz

SN5X (SP5GRM)..... 624,306
ED7O..... 608,908
PCØA..... 521,324
9A0BB (E72X)..... 416,584
ES2MC..... 396,126
RAØFLP..... 389,376
PY2QT..... 299,880
RW0SR..... 263,879
JR3RIY..... 190,368
E21AZ (VK3EZ)..... 162,540

14 MHz

MW7C (M5RIC)..... 668,390
SP9DTE..... 135,808
IQ6MC..... 129,500
EC5C..... 113,388
F4LTU..... 90,300
SV1BJW/6..... 67,524
HB9DOS..... 66,785
R6OQ..... 60,208
OK2SFP..... 53,382
AI3Q..... 52,920

7 MHz

S52X..... 298,298
IC8SQS..... 111,180
I5WNN..... 79,992
JH3FUK..... 43,200
OZ6TL..... 37,741
JA8DNV..... 14,364
EG1FSM (EA1DA)..... 9,588
W9AKS..... 5,350
KP4JFR..... 3,760
LZ1MC..... 1,400

3.5 MHz

S53X..... 122,300
DM3W (DM6DX)..... 74,992
JE2OTM..... 390
SP5ES..... 390

LOW POWER

All Bands

VE3DZ..... 3,004,031
TI1K (TI5CDA).... 2,432,815
LY5W..... 1,754,080
IZ3KNK..... 1,570,145
EF3T (EA3FZT).... 1,542,728
PY2NY..... 1,431,786
PY2UD..... 1,396,412
DK8ZZ..... 1,322,190
KH6CJJ..... 1,192,800
JI1RXQ..... 1,121,056

28 MHz

CA6SNT.....269,688
PY2CX.....248,160
SN7T (SQ7OTK).....240,647
TI2YO.....221,415
EA9E.....204,288
CX2AQ.....134,082
OM5CD.....120,414
JK8PBO.....116,040
UXØDL.....111,792
OD5KU.....111,051

21 MHz

IH9/IP5A (IK5AEQ)..312,360
IK5AMB.....279,888
UF5A.....190,713
DL1DTL.....159,495
J43DX (SV3SKM).....157,784
TG9ANF.....156,800
DO6SR.....155,694
UA3PI.....137,310
UT2EF.....131,786
N9XX.....119,700

14 MHz

YT8A.....384,982
IK6XEJ.....272,081
EA3CI.....182,236
IG9ITO.....164,400
SV3EXU.....160,892
UT5EPP.....147,402
IW1PNJ.....145,728
OD5ZF.....124,928
OT5Q.....94,361
EW6DM.....75,735

7 MHz

G4N (G4ZVB).....210,195
E7ØY.....195,375
EW7B.....193,908
4L2M.....152,880
DL1AIW.....88,880
OM5TX.....88,200
F1FCA.....75,561
CO2JD.....55,664
RX7O.....50,940
DK0GYB.....41,076

3.5 MHz

F5BEG.....63,832
I3PXN.....46,398
E79D.....45,936
M7V (M0VAA).....42,174
OM5KM.....34,892
M6W (G3WW).....33,345
UT5PY.....23,040
IT9RBW.....21,824
R5KH.....4,061
UT5UGR.....2,075

QRP All Bands

DK7HA.....1,091,328
SP2UUU.....915,705
ED3Q (EA3O).....770,270
JA6GCE.....704,160
K2YG.....650,730
RC1C.....433,251
EA1GT.....303,576
JH7UJU.....264,656
W6QU (W8QZA).....225,872
PC2F.....185,409

28 MHz

SP4LO.....29,064
RQ7R.....27,804
IZ2JPN.....26,878
EA4TK.....25,389
JE3EDJ.....17,664
ON8NT.....16,280
CO6EC.....12,805
VK9A.....5,781
BI3XGJ.....3,266
OH5AG (OH5YL).....2,701

21 MHz

HG60IPA (HA3JB).... 164,880
KD9MS..... 72,240
CO2AJ..... 45,600
IV3LNQ..... 45,504
YO3DAC..... 21,300
SP4NKJ..... 18,602
JR1NKN..... 16,832
OH5C (OH5YL)..... 14,280
JR2EKD..... 11,286
YC4SIZ..... 6,384

14 MHz

YU1NR..... 128,652
SFØA (SM0LPO)..... 72,105
RZ3Z/P..... 34,111
SP9CXN..... 30,660
VE3GMZ..... 11,895
YO3RU..... 11,500
TI1M (TI3ATS)..... 2,775
DF5GO..... 1,900
CB4T (CE4WT)..... 1,053
IU5SET..... 1,050

7 MHz

YO4BEW..... 42,042
DK1RF..... 16,244
YC0VM..... 272

3.5 MHz

ON8GA..... 27,300
DL2TM..... 1,800

SINGLE OPERATOR ASSISTED HIGH POWER

All Band

P3X (M0SDX)..... 8,497,968
K1LZ (LZ5DB)..... 8,101,612
EE8E (EA8BW)..... 7,500,681
AA3B..... 7,260,316
LZ5R (LU9ESD).... 6,739,978
S53M (S51FB)..... 5,712,951
S53F..... 5,023,655
ZF2SS (KO7SS).... 4,876,800
SN7Q (SP7GIQ).... 4,808,472
EE4Y (EA4GOY).... 4,668,770

28 MHz

AZ1D (LU1DX)..... 706,816
PZ5RA..... 627,576
7S9A (SA6FOL)..... 562,374
YT1X..... 553,410
JH3AIU..... 478,642
SQ6MS..... 469,224
IQ9RG (IT9LIZ)..... 464,637
DH8BQA..... 391,000
PI4DX (PD1DX)..... 354,705
GM4FDM..... 345,519

21 MHz

9A5Y (9A7DX)..... 906,102
SN2M (SP2XF)..... 885,654
SN3A (SQ9UM)..... 852,028
II9P (IT9EQO)..... 647,773
9A5D (9A5DU)..... 647,192
N6WM..... 609,124
G8X..... 555,093
DL3BQA..... 545,388
CT7BJG..... 538,253
YU5R (YT3PL)..... 511,578

14 MHz

IN3VVK..... 971,250
YT3X..... 886,620
WQ5OO (N8OO)..... 677,254
HG5D (HA8QZ)..... 588,130
SP4TKR..... 537,894
RA1M..... 410,700
RA9AU..... 253,076
UT8EU..... 220,702
SV3FUP..... 159,500
IZ1ZHG..... 129,143

7 MHz

5P5W (UT0NT)..... 411,740
IK2XDE..... 276,320
S51CK..... 228,470
G7SLP (A65DR)..... 218,652
EA8DO..... 191,280
UZ1WW..... 166,497
IO3A (IV3HAX)..... 74,165
YO3LW..... 59,985
Z39A..... 36,828
SM5EPO..... 34,604

3.5 MHz

HA1TJ..... 197,145
SO4M..... 98,348
I5MXX..... 84,510
DF8XC..... 74,119
G4CDN..... 62,884
OK1DX..... 36,139
N6RO..... 26,520
YG3CJU..... 6

LOW POWER

All Band

TM3Z (F4DSK)..... 5,469,384
KI1G..... 3,547,314
UT4LW..... 3,016,160
VP9I (SP5XVY).... 2,757,064
AA5AU..... 2,617,770
PA4O..... 2,445,338
UP7L (UN6LN)..... 2,274,888
OV9R (DF2SD)..... 2,009,953
MW9W (GW0KRL).... 1,545,504
WT9U..... 1,448,816

28 MHz

FY5KE (F5UII)..... 728,130
EA8DED (OH2BP)..... 522,200
IB9X (IT9XTP)..... 441,210
JA6WFM..... 351,063
SV2AEL..... 242,928
DZ3B (4F3BZ)..... 193,242
PU1JSV..... 192,360
ON6NL..... 182,070
RG5A..... 175,365
EC7AKV..... 162,720

21 MHz

TM6M (F1AKK)..... 630,912
SM2M (SM2LIY)..... 394,284
LY1R..... 387,260
IT9STX..... 364,320
IT9WDC..... 232,585
VA3FF..... 217,591
HA8TKS..... 215,973
G9F (G4BVY)..... 178,296
3G2S (XQ2OP)..... 166,016
IT9FRX..... 143,106

14 MHz

3V8LL..... 566,826
HB9KG ((SQ5IRO/HB9IKO))
..... 290,164
IK4GNI..... 176,400
IW2MXY..... 124,950
G8OO..... 116,644
CO2KL..... 101,964
EI7KD..... 96,134
IB9Z (IT9VCE)..... 95,712
EA5XA..... 92,598
IO2X (IK2WAD)..... 90,984

7 MHz

F1DHX (@F6KNB)..... 233,800
I4AVG..... 220,528
YT9VM..... 119,769
WA1FCN..... 108,234
IP4R..... 97,904
OK1CT..... 76,704
IU5ICR..... 61,586
EA3IAZ..... 58,565
YU1UN..... 54,035
S51J..... 50,220

3.5 MHz

DL7RAV..... 46,046
9A1CCY (9A3BBF)..... 33,880
IW5EIJ..... 9,900
OG5B (OH5BM)..... 6,802
VE3OK..... 5,760
TI2WMP..... 192
KE7DKN..... 36

QRP

All Band

KA4RRU..... 648,985
LX5M (LX1ER)..... 410,096
EA2AZ..... 355,306
M1D (M1CKD)..... 280,371
PE2K..... 240,640
JA4XHF/3..... 221,400
YU1LM..... 179,765
WQ6X..... 145,700
SP9RQH..... 71,514
DK9BM..... 65,366

28 MHz

EA6/DK9IP..... 114,108
JA6VZB..... 62,048
M0TZM..... 30,345
N8URE..... 22,120
HA5PP..... 11,098
YB2NDX..... 10,004
4O6ZD..... 7,191
LW5EAE..... 5,764
JM2RUV..... 3,293

21 MHz

MW1B (G1YBB)..... 567,196
HG3DX (HA1DAE)..... 242,178
UY5LW..... 114,911
HG3C..... 47,775
K3TW..... 4,947
DV1IIW..... 100
BH6QDB..... 6

14 MHz

UR2Y (US0YW)..... 77,976
HG6C (HA6IAM)..... 50,149
M1P..... 9,900
IZ2QKG..... 3,200
OH5CW..... 1,269

7 MHz

IZ3IBL..... 92,432
9A6TT..... 24,957
JH3DMQ..... 363
YD3ASV..... 30

3.5 MHz

LY7Z..... 20,474
EN60NK (UT3NK)..... 16,170
SP3WKW..... 493
OH5LAQ (OH5CW)..... 435
UT7A (UT7AA)..... 322

MULTI-OP SINGLE-TRANSMITTER

HIGH POWER

EI7M 7,995,068
IO6T 7,919,946
IK4HVR 7,393,688
OK5Z 5,813,178
DA2X 5,407,326
DP6A 5,384,277
HG7T 4,709,600
PR1T 4,511,276
OK7O 4,142,768
IB9R 3,795,344

LOW POWER

WP3C 5,614,865
YL73R 4,506,468
VE3EID 3,986,580
IO3F 3,864,326
S51A 3,664,458
KP2B 2,704,540
9A925T 2,594,440
NY6DX 1,932,324
TM6V 1,870,540
N7GCO 1,780,765

MULTI-OP TWO-TRANSMITTER

NJ4P 11,116,358
P49X 9,157,518
K9CT 9,078,874
PI4COM 8,106,315
DP7D 7,977,895
AG4TT 6,673,932
SZ1A 6,406,110
DQ2A 6,026,195
S5ØW 5,972,799
W2MKM 5,153,838

MULTI-OP MULTI-TRANSMITTER

CN3A 19,305,930
9A1A 13,692,650
CR3W 11,452,093
IB9T 10,885,160
K1SFA 9,327,531
DP9A 9,306,626
W3GH 5,160,694
C37N 3,949,120
KØIR 3,161,380
KØOO 1,756,227

MULTI-OP MULTI-DISTRIBUTED

LZ2K 6,303,960
PV2K 5,503,680
VE2CQ 5,331,168
EF7O 2,717,712
VK4SN 2,118,600
S53K 624,860
9M2J 70,485

ROOKIE

HIGH POWER

WB5SKM 501,312
YF3AQV 15,960
SQ5I 5,763
YG3CJU 6

LOW POWER

BGØDLA 1,178,667
AC1PK 248,514
BG6OJB 64,269
TA3CKY 46,200
IU5SHF 44,895
SP9XL 24,297
DO1MAW 24,064
SP5GW 22,672
SP9MKP 20,945
K0KMV 20,618

CLASSIC

HIGH POWER

VK9DX 2,394,522
LX7I (DF7EE) 2,366,688
YT3D 2,150,280
K9OM 1,858,116
R2FK 1,692,570
OZ11A 1,149,480
W7YAQ 1,133,664
JH7QXJ 1,087,268
W5AP 1,023,440
WI9WI 1,009,827

LOW POWER

LY5W 1,754,080
DK8ZZ 1,322,190
OE2E (OE2GEN) 1,049,755
MI0H (MI0KOA) 1,031,304
VA1XH 966,088
PY2NY 761,830
NN5T 698,740
LA5LJA 694,612
VE2BVV 682,185
N4TB 654,434

YOUTH

HIGH POWER

JQ7AXT 272,034

LOW POWER

DJ4MX 1,215,336
OH5YL 525,096
WT5A 372,504
OK1VIC 104,895
HF6UWU 91,656
DF1CN 61,506
JT1YL 44,080
TA2EHI 41,008
KF0RBR 39,403
HA1NB 26,596

Band Breakdowns

WORLD SINGLE OPERATOR ALL BANDS

High Power

IP4X	248/10/46/17	482/22/66/42	920/32/91/56	757/31/87/56	675/32/78/48
K5ZD	252/12/37/43	571/19/62/50	822/29/78/49	732/30/89/46	627/26/82/35
SO9I	199/6/38/6	566/20/63/43	753/24/77/52	914/32/76/54	594/31/80/50
ACØC	106/7/20/33	324/12/41/48	581/25/66/49	929/31/89/48	575/27/80/32
LB8IB	187/10/45/11	371/23/66/38	513/27/70/49	626/28/74/45	389/27/67/39
LX7I	199/10/42/16	342/12/53/39	509/20/63/44	690/24/67/52	442/23/59/49
A61QQ	0/0/0/0	206/11/49/14	453/23/66/26	717/22/64/36	730/25/72/30
K7RAT	50/5/4/23	329/20/39/46	332/20/53/45	867/29/78/49	601/30/70/45
ZW2N	0/0/0/0	130/12/30/23	419/22/50/44	489/22/63/42	896/23/71/47
VK9DX	7/5/7/1	154/19/35/34	307/23/62/34	594/24/64/38	661/27/70/43

Low Power

VE3DZ	264/11/33/42	261/19/44/43	580/26/70/45	694/25/71/35	312/23/63/21
TI1K	19/4/5/15	161/11/37/30	442/16/56/42	604/24/64/50	713/24/74/45
LY5W	103/9/41/6	290/20/64/33	314/30/78/44	221/28/63/41	257/31/75/45
IZ3KNK	129/7/37/4	184/13/50/21	333/24/71/34	364/27/69/46	250/30/70/42
EF3T	43/5/23/2	180/12/50/24	504/26/75/43	366/26/75/47	216/26/54/29
PY2NY	0/0/0/0	99/16/33/25	297/25/57/40	209/18/46/36	586/23/63/44
PY2UD	1/1/1/0	24/9/19/3	199/17/47/35	280/23/49/42	743/23/72/47
DK8ZZ	125/10/42/10	206/14/53/25	246/24/68/41	301/21/58/46	218/23/57/39
KH6CJJ	2/2/2/1	73/9/9/29	203/19/46/41	323/27/48/49	436/25/42/51
JI1RXQ	2/2/2/1	88/20/30/16	101/25/39/23	370/28/67/41	382/27/69/34

QRP

DK7HA	163/6/36/2	281/12/55/20	199/15/50/31	249/22/51/40	180/24/44/40
SP2UUU	79/6/36/3	171/14/50/10	214/17/58/24	211/25/56/37	183/27/62/34
ED3Q	61/7/25/4	85/10/37/21	199/11/41/36	199/17/41/39	258/24/49/32
JA6GCE	1/1/1/0	86/11/22/8	129/18/48/9	240/29/62/33	292/23/66/29
K2YG	51/4/7/23	89/10/21/29	231/21/59/39	226/19/62/24	148/17/53/10
RC1C	38/6/21/0	124/12/37/3	225/17/52/13	282/23/45/28	56/15/26/1
EA1GT	22/4/16/1	67/7/23/10	161/12/42/24	160/14/38/16	100/12/40/19
JH7UJU	3/1/1/0	38/7/8/9	65/20/36/15	139/24/46/19	120/21/49/16
W6QU	5/2/1/3	35/7/6/16	77/17/32/24	110/21/39/29	136/23/59/25
PC2F	27/3/16/0	64/8/33/6	113/13/38/12	74/13/31/11	67/16/23/20

WORLD SINGLE OPERATOR ASSISTED ALL BANDS

High Power

P3X	159/9/43/18	549/20/70/41	1020/33/100/52	1159/34/95/54	1164/34/97/44
K1LZ	346/13/54/44	727/28/82/51	1089/36/96/53	1044/34/105/51	916/30/102/44
EE8E	171/11/44/26	638/20/66/45	975/28/87/54	1169/28/90/58	1051/29/90/53
AA3B	277/13/47/46	803/24/77/54	897/34/95/53	931/35/104/56	749/27/92/39
LZ5R	290/13/57/22	538/31/92/50	796/33/106/58	917/35/110/60	669/36/105/54
S53M	182/11/52/22	616/31/89/46	835/34/104/54	739/34/106/56	506/33/90/51
S53F	232/11/54/21	274/26/77/40	732/33/100/54	711/35/103/58	584/36/93/52
ZF2SS	72/11/24/35	270/23/68/55	433/33/85/58	769/33/100/55	1025/31/96/55
SN7Q	214/12/53/23	318/23/69/39	756/31/90/53	743/33/96/55	540/33/83/51
EE4Y	134/8/43/19	316/24/78/40	764/29/96/53	972/34/101/56	402/35/96/54

Low Power

TM3Z	242/9/54/21	640/30/90/54	589/35/106/60	592/35/103/60	509/34/97/55
KI1G	155/11/38/42	349/21/63/55	574/33/85/54	593/34/91/52	394/26/85/39
UT4LW	137/6/36/0	487/15/63/20	770/24/79/39	694/25/73/41	490/28/77/34
VP9I	94/9/25/32	260/16/50/45	439/23/66/46	712/22/70/54	423/20/64/42
AA5AU	71/8/17/31	227/20/55/47	323/31/85/53	564/34/99/53	549/31/100/46
PA4O	168/7/43/5	259/16/58/25	409/28/87/46	485/34/88/53	273/31/71/42
UP7L	34/5/14/0	109/14/43/4	510/28/74/36	600/30/79/31	537/25/75/4
OV9R	139/6/46/3	268/21/73/34	355/29/87/43	334/32/92/50	172/29/68/36
MW9W	171/8/41/13	230/14/54/25	279/27/71/30	261/26/66/35	252/30/65/39
WT9U	89/7/7/34	260/9/29/53	369/19/58/45	413/24/74/35	253/24/65/13

QRP

KA4RRU	57/3/2/30	137/9/24/44	168/14/49/29	214/19/57/23	168/22/60/10
LX5M	120/7/36/3	119/12/46/14	99/22/53/17	105/23/51/23	62/18/31/5
EA2AZ	25/3/15/0	122/10/38/14	312/18/53/32	115/13/38/14	61/11/26/2
M1D	44/4/23/1	122/10/41/11	205/12/48/14	98/13/36/12	56/13/19/16
PE2K	0/0/0/0	125/6/35/5	237/13/54/20	96/10/28/14	63/14/25/11
JA4XHF/3	0/0/0/0	11/7/7/3	49/21/27/15	134/18/36/24	128/22/50/16
YU1LM	40/5/16/0	67/6/29/0	114/9/37/16	93/12/28/18	59/16/21/16
WQ6X	18/3/1/13	98/11/17/30	46/10/15/20	106/13/31/24	86/12/17/18
SP9RQH	4/3/4/0	51/8/26/7	2/2/2/0	83/21/40/12	49/19/26/4
DK9BM	12/3/9/0	41/6/20/4	57/9/25/10	58/12/20/21	15/9/8/5

WORLD MULTI-OPERATOR SINGLE-TRANSMITTER

High Power

EI7M	228/10/53/33	488/31/87/50	943/36/107/59	1202/35/111/59	830/36/115/56
IO6T	291/13/65/31	685/32/94/52	986/35/109/59	949/35/111/59	723/36/107/56
IK4HVR	193/13/57/28	600/30/91/52	1095/35/107/60	786/36/112/57	759/35/104/55
OK5Z	197/11/56/21	505/30/89/50	642/35/111/58	828/34/107/59	627/34/103/56
DA2X	220/14/61/23	376/30/87/51	568/36/109/58	734/34/106/59	541/35/102/57
DP6A	249/13/58/26	471/32/89/49	525/34/104/51	724/35/110/57	484/35/102/56
HG7T	195/12/56/22	339/29/84/45	665/34/98/54	823/35/105/58	379/35/95/50
PR1T	35/10/18/15	143/21/55/39	594/30/89/52	554/29/93/55	1117/30/89/54
OK7O	103/11/41/11	298/20/64/50	554/32/86/56	760/35/110/60	436/33/90/53
IB9R	165/11/53/16	350/26/76/38	665/34/101/56	526/34/100/57	368/33/99/50

Low Power

WP3C	99/13/36/37	400/29/84/54	687/33/95/59	760/32/95/59	890/30/87/54
YL73R	178/9/52/10	480/27/81/36	655/35/98/52	932/34/103/55	278/32/91/47
VE3EID	150/9/29/46	553/27/81/57	524/34/93/58	518/31/104/52	294/28/92/39
IO3F	135/9/49/17	504/27/77/47	408/34/97/47	517/34/99/57	499/34/97/53
S51A	195/7/45/15	507/26/86/46	579/35/94/55	481/35/91/55	308/34/89/49
KP2B	30/8/10/17	176/11/38/41	501/28/75/51	440/26/71/51	847/26/76/51
9A925T	140/8/47/8	160/27/79/34	266/33/94/52	463/35/99/57	333/34/84/49
NY6DX	78/7/15/24	325/16/56/40	314/30/81/34	365/30/86/28	351/27/85/10
TM6V	114/7/39/10	231/17/63/34	331/25/74/50	376/29/77/49	254/29/75/42
N7GCO	35/7/7/30	239/22/36/47	367/29/69/51	653/31/77/55	204/26/61/33

WORLD MULTI-OPERATOR TWO-TRANSMITTER

High Power

NJ4P	285/15/44/54	955/26/78/58	1493/36/102/60	1449/35/111/59	1278/34/110/56
P49X	199/12/36/37	762/22/69/53	1073/30/83/57	1387/30/83/58	1072/26/72/55
K9CT	292/14/39/52	967/29/89/58	1101/36/101/59	1220/34/111/50	943/33/100/49
PI4COM	407/11/56/24	695/32/92/54	720/34/105/57	1203/35/110/59	746/35/102/55
DP7D	304/12/58/25	615/31/89/51	930/35/108/59	1003/35/105/59	871/34/106/58
AG4TT	215/11/36/43	660/25/77/53	941/36/98/57	840/33/103/59	868/29/96/45
SZ1A	225/11/54/17	750/27/82/49	1035/35/103/58	950/34/101/55	497/33/92/44
DQ2A	367/11/54/22	692/31/93/48	766/35/102/59	843/35/106/59	412/33/96/51
S5ØW	249/10/53/17	633/25/76/46	789/33/100/55	801/34/96/56	760/32/95/49
W2MKM	201/13/42/44	532/27/84/54	776/32/94/50	857/33/93/47	483/30/89/37

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

High Power

CN3A	560/12/59/42	1110/29/85/54	1774/35/102/58	2091/36/113/60	2095/35/118/56
9A1A	660/14/65/28	1442/33/101/55	1600/36/107/57	1534/35/113/60	1010/37/109/55
CR3W	332/11/51/32	951/30/86/55	1631/32/102/56	1105/34/95/54	1070/28/78/53
IB9T	383/13/58/24	1047/32/91/52	1639/34/109/59	1233/35/109/58	1014/34/102/55
K1SFA	390/16/54/47	981/26/82/55	1211/36/100/58	1150/34/99/52	1081/30/102/50
DP9A	515/12/58/25	874/27/83/43	1210/37/110/57	1121/34/109/54	850/34/107/52
W3GH	268/10/31/44	652/23/73/50	899/29/83/54	875/32/89/47	639/29/89/30
C37N	299/10/49/23	613/15/58/37	940/25/72/48	623/25/65/47	383/22/60/46
KØIR	132/8/10/40	182/14/36/46	699/33/83/49	832/30/86/44	525/29/81/31
KØOO	105/9/22/35	168/17/55/43	368/31/83/44	326/31/89/45	269/27/70/26

Columns are 80, 40, 20 ,15 and 10 meters. Numbers are QSOs, Zones, Countries, and States/Provinces worked on each band.

USA SINGLE OPERATOR ALL BANDS

High Power

K5ZD	252/12/37/43	571/19/62/50	822/29/78/49	732/30/89/46	627/26/82/35
ACØC	106/7/20/33	324/12/41/48	581/25/66/49	929/31/89/48	575/27/80/32
K7RAT	50/5/4/23	329/20/39/46	332/20/53/45	867/29/78/49	601/30/70/45
K9OM	124/7/18/36	273/13/46/41	291/24/56/40	542/27/71/33	304/23/60/21
K2PO	35/7/7/17	246/19/34/42	290/21/53/39	605/23/62/45	432/23/58/28
WS9M	15/6/6/7	138/14/35/36	334/18/53/37	446/24/64/36	275/20/62/16
W7YAQ	41/5/4/22	143/16/26/40	165/28/57/30	330/27/62/39	361/28/67/32
W5AP	43/6/7/25	197/16/32/42	332/19/47/47	283/23/57/37	438/17/55/27
W6EU	34/6/5/18	102/13/29/30	239/25/63/43	437/23/64/48	301/20/46/37
WI9WI	80/7/8/33	159/11/23/38	315/13/36/45	410/17/54/35	227/20/52/19

Low Power

N1NQD	73/9/22/25	96/11/24/29	306/22/59/34	234/19/53/22	203/18/58/15
N4TB	37/3/2/24	119/16/26/33	202/14/47/34	225/22/63/39	198/18/50/11
NN5T	26/5/4/17	143/14/33/42	236/19/52/40	251/22/53/38	152/24/49/22
N7IR	0/0/0/0	60/11/18/22	156/18/39/33	247/26/50/35	307/24/58/24
AB5SE	26/3/2/16	89/9/19/33	261/12/34/41	259/17/56/29	194/23/59/15
WS6X	35/5/7/20	161/17/32/42	239/16/54/38	200/21/55/15	82/12/43/4
WA5POK	15/4/2/11	103/11/11/36	178/14/38/39	270/23/53/43	160/22/49/21
N0UR	20/3/2/14	56/10/14/27	180/14/38/35	304/18/57/31	135/15/46/7
AD8FD	12/2/1/9	126/13/23/38	131/18/41/29	214/24/57/19	131/21/50/9
AI6O	18/4/3/16	97/15/23/34	189/22/49/35	164/21/43/25	137/22/56/8

QRP

K2YG	51/4/7/23	89/10/21/29	231/21/59/39	226/19/62/24	148/17/53/10
W6QU	5/2/1/3	35/7/6/16	77/17/32/24	110/21/39/29	136/23/59/25
K5NZ	16/3/2/14	78/9/12/30	76/12/27/25	86/12/31/24	40/13/17/7
N9KT	13/3/2/11	61/9/20/28	12/8/8/5	69/16/36/10	27/10/15/7
KI4MZC	4/2/1/4	15/7/8/9	30/9/15/13	44/10/24/9	37/13/29/3
N6HI	0/0/0/0	6/2/2/2	17/8/8/8	22/10/8/8	61/18/32/13
AA5KD	3/1/1/3	33/3/2/20	79/9/15/29	10/3/2/5	23/6/5/9
W6ZD	1/1/1/1	20/4/3/16	32/7/19/10	75/12/27/20	24/8/21/3
W9WI	0/0/0/0	0/0/0/0	24/3/4/13	29/7/16/6	24/10/18/3
KD3EE	0/0/0/0	17/4/4/10	17/5/5/8	20/7/7/8	5/5/4/2

USA SINGLE OPERATOR ASSISTED ALL BANDS

High Power

K1LZ	346/13/54/44	727/28/82/51	1089/36/96/53	1044/34/105/51	916/30/102/44
AA3B	277/13/47/46	803/24/77/54	897/34/95/53	931/35/104/56	749/27/92/39
WØSD	161/12/20/46	484/24/67/55	683/31/83/57	1038/31/97/56	522/28/88/40
N3QE	196/10/35/49	494/20/71/54	558/27/81/52	626/32/93/47	472/27/86/34
KI6DY	119/9/18/35	408/21/59/50	568/29/82/51	528/29/83/31	413/25/81/23
K6LL	48/7/7/35	173/25/56/49	432/31/81/52	558/28/83/53	556/29/95/46
AIØY	82/9/13/34	238/13/34/46	550/27/71/49	814/29/84/48	281/21/60/19
N4ZZ	76/9/12/29	205/17/53/46	416/25/66/47	564/24/69/41	434/25/81/23
W4TTY	136/12/26/33	248/19/57/43	364/19/59/35	425/24/71/23	435/26/86/16
WA2CP	113/10/39/42	210/18/66/51	314/30/90/46	392/33/94/45	209/24/77/29

Low Power

KI1G	155/11/38/42	349/21/63/55	574/33/85/54	593/34/91/52	394/26/85/39
AA5AU	71/8/17/31	227/20/55/47	323/31/85/53	564/34/99/53	549/31/100/46
WT9U	89/7/7/34	260/9/29/53	369/19/58/45	413/24/74/35	253/24/65/13
ND4Y	145/10/20/36	202/13/35/45	336/23/61/44	470/23/71/37	207/25/61/13
W4IX	64/8/11/33	224/16/46/48	246/22/62/43	239/27/75/33	264/25/73/17
N0HJZ	119/7/7/40	165/17/38/47	279/25/65/46	405/25/74/38	139/23/70/14
NM4AA	50/8/9/23	174/12/36/35	255/16/46/42	441/19/60/36	329/20/53/18
WJ1U	99/9/27/27	146/11/42/37	233/23/62/37	290/25/71/40	117/23/58/15
AH2O	14/3/3/10	136/11/27/42	248/20/60/41	367/21/71/39	228/22/72/22
KØKX	37/4/3/27	120/16/28/44	127/13/38/42	312/25/74/41	194/24/76/15

QRP

KA4RRU	57/3/2/30	137/9/24/44	168/14/49/29	214/19/57/23	168/22/60/10
WQ6X	18/3/1/13	98/11/17/30	46/10/15/20	106/13/31/24	86/12/17/18
K8ZT	2/2/1/2	11/5/5/7	13/7/5/9	25/9/21/4	16/8/11/6
KD2KEH	0/0/0/0	0/0/0/0	23/6/8/9	3/3/3/1	0/0/0/0

USA MULTI-OPERATOR SINGLE-TRANSMITTER

High Power

NA7TB	61/9/16/38	279/23/64/51	444/34/83/58	665/33/104/58	618/30/100/51
W4RM	63/7/13/26	490/24/70/54	632/25/80/50	518/27/80/38	273/23/72/11
AD4ES	17/4/4/8	166/10/37/29	273/17/47/41	453/21/57/31	539/24/69/22
W7VO	12/4/3/10	176/17/24/38	344/28/62/50	627/29/79/54	171/27/59/36
WF4DX	99/10/19/28	366/19/51/46	180/16/42/42	319/20/57/40	329/23/74/21
W4MLB	16/5/3/8	208/12/44/41	256/20/52/37	255/24/57/39	411/19/65/17
K9YY	43/7/8/24	188/14/36/44	222/19/53/41	422/26/72/34	153/17/50/10
K3ANI	0/0/0/0	232/12/43/41	0/0/0/0	452/24/78/35	0/0/0/0
AC8Y	22/7/10/10	156/10/36/31	129/14/37/19	158/19/45/17	14/4/3/3
W8BI	36/4/3/25	113/15/18/39	133/15/40/32	91/13/36/10	56/13/24/6

Low Power

NY6DX	78/7/15/24	325/16/56/40	314/30/81/34	365/30/86/28	351/27/85/10
N7GCO	35/7/7/30	239/22/36/47	367/29/69/51	653/31/77/55	204/26/61/33
W1FM	31/4/9/16	80/11/21/29	102/12/31/21	226/14/51/23	110/15/42/11
WA1F	0/0/0/0	0/0/0/0	253/10/38/36	119/8/33/15	132/12/46/10

USA MULTI-OPERATOR TWO-TRANSMITTER

NJ4P	285/15/44/54	955/26/78/58	1493/36/102/60	1449/35/111/59	1278/34/110/56
K9CT	292/14/39/52	967/29/89/58	1101/36/101/59	1220/34/111/50	943/33/100/49
AG4TT	215/11/36/43	660/25/77/53	941/36/98/57	840/33/103/59	868/29/96/45
W2MKM	201/13/42/44	532/27/84/54	776/32/94/50	857/33/93/47	483/30/89/37
K4EA	134/13/37/34	581/23/64/50	403/28/78/45	870/31/86/49	620/33/101/41
W0LSD	102/7/6/39	469/23/59/52	579/31/79/56	822/34/92/57	602/29/84/46
K7BTW	6/2/2/5	187/20/35/42	402/25/65/45	908/32/79/55	496/29/65/44
KT7E	25/4/3/13	213/20/29/45	249/30/70/32	699/30/86/51	607/27/68/47
K3CCR	137/9/25/34	221/20/62/34	448/28/76/44	324/29/89/28	222/25/77/13
WX8S	15/3/3/11	56/10/29/11	114/23/52/23	199/23/66/17	159/21/55/8

USA MULTI-OPERATOR MULTI-TRANSMITTER

K1SFA	390/16/54/47	981/26/82/55	1211/36/100/58	1150/34/99/52	1081/30/102/50
W3GH	268/10/31/44	652/23/73/50	899/29/83/54	875/32/89/47	639/29/89/30
KØIR	132/8/10/40	182/14/36/46	699/33/83/49	832/30/86/44	525/29/81/31
KØOO	105/9/22/35	168/17/55/43	368/31/83/44	326/31/89/45	269/27/70/26

Columns are 80, 40, 20 ,15 and 10 meters. Numbers are QSOs, Zones, Countries, and States/Provinces worked on each band.

EUROPE SINGLE OPERATOR ALL BANDS

High Power

IP4X	248/10/46/17	482/22/66/42	920/32/91/56	757/31/87/56	675/32/78/48
SO9I	199/6/38/6	566/20/63/43	753/24/77/52	914/32/76/54	594/31/80/50
LB8IB	187/10/45/11	371/23/66/38	513/27/70/49	626/28/74/45	389/27/67/39
LX7I	199/10/42/16	342/12/53/39	509/20/63/44	690/24/67/52	442/23/59/49
YT3D	129/8/32/13	362/21/61/36	331/21/54/39	479/24/61/49	288/25/54/42
R2FK	152/6/41/2	201/16/52/14	343/19/55/40	404/25/63/41	332/26/69/37
OZ11A	73/5/33/3	113/11/35/10	243/18/47/31	624/24/66/46	172/19/46/18
YL2GD	121/7/31/2	217/13/40/15	282/16/48/34	417/18/48/46	163/20/42/26
MM1E	70/6/27/2	238/9/43/13	221/11/42/24	374/23/56/42	172/21/55/24
DF8QB	92/7/34/3	148/16/50/18	181/17/49/33	208/24/54/37	218/25/57/31

Low Power

LY5W	103/9/41/6	290/20/64/33	314/30/78/44	221/28/63/41	257/31/75/45
IZ3KNK	129/7/37/4	184/13/50/21	333/24/71/34	364/27/69/46	250/30/70/42
EF3T	43/5/23/2	180/12/50/24	504/26/75/43	366/26/75/47	216/26/54/29
DK8ZZ	125/10/42/10	206/14/53/25	246/24/68/41	301/21/58/46	218/23/57/39
OE2E	50/5/27/0	157/13/51/14	184/17/52/33	344/22/54/44	264/22/54/37
MIØH	122/6/32/1	151/11/47/12	403/28/76/29	282/22/67/37	109/18/32/25
ON3UN	126/7/31/7	226/12/52/12	180/16/41/30	243/25/50/35	203/28/58/15
LA5LJA	74/7/33/2	136/12/48/11	210/20/60/22	222/27/62/33	126/26/54/22
HA1BC	94/5/28/0	164/11/45/11	204/13/50/32	149/22/45/29	128/26/44/29
OK1PMA	131/6/35/2	108/10/38/6	183/16/50/23	207/25/54/37	98/22/40/15

QRP

DK7HA	163/6/36/2	281/12/55/20	199/15/50/31	249/22/51/40	180/24/44/40
SP2UUU	79/6/36/3	171/14/50/10	214/17/58/24	211/25/56/37	183/27/62/34
ED3Q	61/7/25/4	85/10/37/21	199/11/41/36	199/17/41/39	258/24/49/32
RC1C	38/6/21/0	124/12/37/3	225/17/52/13	282/23/45/28	56/15/26/1
EA1GT	22/4/16/1	67/7/23/10	161/12/42/24	160/14/38/16	100/12/40/19
PC2F	27/3/16/0	64/8/33/6	113/13/38/12	74/13/31/11	67/16/23/20
IK1BPL	0/0/0/0	137/9/44/5	67/8/29/9	88/15/26/26	39/16/24/9
ON3NYL	29/4/16/1	68/6/27/4	57/10/32/7	87/12/25/26	51/11/15/20
R4FCJ	3/2/3/0	33/5/18/0	31/11/17/12	127/15/44/20	44/12/19/0
IK3BVD	23/2/11/0	42/4/22/0	50/7/25/3	43/12/19/11	41/15/23/11

EUROPE SINGLE OPERATOR ASSISTED ALL BANDS

High Power

LZ5R	290/13/57/22	538/31/92/50	796/33/106/58	917/35/110/60	669/36/105/54
S53M	182/11/52/22	616/31/89/46	835/34/104/54	739/34/106/56	506/33/90/51
S53F	232/11/54/21	274/26/77/40	732/33/100/54	711/35/103/58	584/36/93/52
SN7Q	214/12/53/23	318/23/69/39	756/31/90/53	743/33/96/55	540/33/83/51
EE4Y	134/8/43/19	316/24/78/40	764/29/96/53	972/34/101/56	402/35/96/54
MM9I	224/9/50/24	417/21/77/41	581/32/92/47	706/32/90/52	310/30/74/42
YQ6A	113/8/43/4	372/23/70/38	627/33/94/48	588/32/91/53	349/33/87/49
HB9TOC	230/11/55/16	290/22/63/32	379/28/84/46	537/33/85/50	418/31/78/45
EU8U	182/7/47/0	342/20/68/24	495/31/88/41	534/31/79/47	395/35/84/40
EU4E	196/11/54/16	282/17/67/29	408/28/81/48	474/30/82/54	237/34/75/48

Low Power

TM3Z	242/9/54/21	640/30/90/54	589/35/106/60	592/35/103/60	509/34/97/55
UT4LW	137/6/36/0	487/15/63/20	770/24/79/39	694/25/73/41	490/28/77/34
PA4O	168/7/43/5	259/16/58/25	409/28/87/46	485/34/88/53	273/31/71/42
OV9R	139/6/46/3	268/21/73/34	355/29/87/43	334/32/92/50	172/29/68/36
MW9W	171/8/41/13	230/14/54/25	279/27/71/30	261/26/66/35	252/30/65/39
UR6EA	89/6/38/1	268/19/63/23	459/27/78/36	334/26/64/33	135/25/46/28
EA4BAS	34/5/22/2	143/19/56/29	318/28/75/43	372/28/76/45	245/27/63/37
F8CRS	68/8/39/11	131/18/57/31	207/30/80/36	254/33/79/53	188/33/69/44
DJ4MX	70/6/38/3	138/19/66/23	166/29/82/47	224/31/79/51	164/33/82/43
TK/DL1RTL	186/7/43/5	313/17/60/19	423/22/69/28	178/19/54/17	103/19/44/14

QRP

LX5M	120/7/36/3	119/12/46/14	99/22/53/17	105/23/51/23	62/18/31/5
EA2AZ	25/3/15/0	122/10/38/14	312/18/53/32	115/13/38/14	61/11/26/2
M1D	44/4/23/1	122/10/41/11	205/12/48/14	98/13/36/12	56/13/19/16
PE2K	0/0/0/0	125/6/35/5	237/13/54/20	96/10/28/14	63/14/25/11
YU1LM	40/5/16/0	67/6/29/0	114/9/37/16	93/12/28/18	59/16/21/16
SP9RQH	4/3/4/0	51/8/26/7	2/2/2/0	83/21/40/12	49/19/26/4
DK9BM	12/3/9/0	41/6/20/4	57/9/25/10	58/12/20/21	15/9/8/5

IP2T	0/0/0/0	6/2/4/0	195/15/51/7	31/7/15/1	13/10/11/1
MM7BWK	0/0/0/0	4/2/3/0	90/8/30/8	76/9/28/4	47/11/20/9
HB2QRP	0/0/0/0	26/7/13/10	15/7/12/3	47/9/11/26	42/13/21/15

EUROPE MULTI-OPERATOR SINGLE-TRANSMITTER

High Power

EI7M	228/10/53/33	488/31/87/50	943/36/107/59	1202/35/111/59	830/36/115/56
IO6T	291/13/65/31	685/32/94/52	986/35/109/59	949/35/111/59	723/36/107/56
IK4HVR	193/13/57/28	600/30/91/52	1095/35/107/60	786/36/112/57	759/35/104/55
OK5Z	197/11/56/21	505/30/89/50	642/35/111/58	828/34/107/59	627/34/103/56
DA2X	220/14/61/23	376/30/87/51	568/36/109/58	734/34/106/59	541/35/102/57
DP6A	249/13/58/26	471/32/89/49	525/34/104/51	724/35/110/57	484/35/102/56
HG7T	195/12/56/22	339/29/84/45	665/34/98/54	823/35/105/58	379/35/95/50
OK7O	103/11/41/11	298/20/64/50	554/32/86/56	760/35/110/60	436/33/90/53
IB9R	165/11/53/16	350/26/76/38	665/34/101/56	526/34/100/57	368/33/99/50
S54L	228/8/48/16	600/23/72/38	416/32/91/46	512/33/91/55	192/29/76/44

Low Power

YL73R	178/9/52/10	480/27/81/36	655/35/98/52	932/34/103/55	278/32/91/47
IO3F	135/9/49/17	504/27/77/47	408/34/97/47	517/34/99/57	499/34/97/53
S51A	195/7/45/15	507/26/86/46	579/35/94/55	481/35/91/55	308/34/89/49
9A925T	140/8/47/8	160/27/79/34	266/33/94/52	463/35/99/57	333/34/84/49
TM6V	114/7/39/10	231/17/63/34	331/25/74/50	376/29/77/49	254/29/75/42
YU3A	175/7/49/13	287/23/72/32	411/34/96/48	206/29/59/45	101/25/40/27
SP3PGX	197/8/43/11	269/16/54/19	457/28/76/37	360/29/69/34	69/24/42/8
ER3KAZ	194/7/47/3	425/14/64/23	403/19/66/18	339/25/55/34	99/27/55/9
ES9ØERAU	85/6/36/0	142/16/55/13	276/24/72/24	328/29/70/41	226/31/81/31
CS5CRE	8/3/8/0	202/12/46/18	481/22/72/40	271/15/51/35	217/17/51/31

EUROPE MULTI-OPERATOR TWO-TRANSMITTER#

PI4COM	407/11/56/24	695/32/92/54	720/34/105/57	1203/35/110/59	746/35/102/55
DP7D	304/12/58/25	615/31/89/51	930/35/108/59	1003/35/105/59	871/34/106/58
SZ1A	225/11/54/17	750/27/82/49	1035/35/103/58	950/34/101/55	497/33/92/44
DQ2A	367/11/54/22	692/31/93/48	766/35/102/59	843/35/106/59	412/33/96/51
S5ØW	249/10/53/17	633/25/76/46	789/33/100/55	801/34/96/56	760/32/95/49
IW3ICN	227/8/45/12	532/23/71/31	658/34/93/54	686/32/85/54	474/33/71/44
LA1K	191/5/38/0	411/16/57/14	870/27/77/41	745/24/72/45	132/19/33/19
F4KOL	0/0/0/0	44/4/16/0	158/11/38/6	75/10/27/6	162/25/53/38
SX8AJX	4/2/2/0	119/11/48/8	100/14/37/18	60/10/23/14	57/12/28/10

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER#

9A1A	660/14/65/28	1442/33/101/55	1600/36/107/57	1534/35/113/60	1010/37/109/55
IB9T	383/13/58/24	1047/32/91/52	1639/34/109/59	1233/35/109/58	1014/34/102/55
DP9A	515/12/58/25	874/27/83/43	1210/37/110/57	1121/34/109/54	850/34/107/52
C37N	299/10/49/23	613/15/58/37	940/25/72/48	623/25/65/47	383/22/60/46
OZ4GM	118/6/33/2	320/17/59/18	473/16/51/34	261/27/73/33	177/25/64/34
PI4CC	90/5/28/0	232/17/51/11	176/13/48/14	330/28/56/45	194/21/50/43
IQ4FA	0/0/0/0	0/0/0/0	135/11/32/14	116/13/30/22	272/23/42/38

Columns are 80, 40, 20 ,15 and 10 meters. Numbers are QSOs, Zones, Countries, and States/Provinces worked on each band.