

Results of the 2025 CQ WW DX CW Contest

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“The last weekend of November is ALWAYS the best radio weekend of the year!” – EA1PJ.

Another Amazing CQ WW CW Contest – The 2025 Edition!

There aren't many opportunities where someone gets to report on an on-going institution that has been taking place for 77 consecutive years. I have that privilege as your director of the CQ WW Contest. And the CQ WW is indeed a true institution in our ham radio hobby. It's thrilling to watch the contest unfold each year. Beginning about 7-10 days ahead of the event, stations start to appear from all around the world. With only a few days to go, you can tune up and down the bands, discovering mini-pileups that are sprinkled across the bands from 160 – 10 meters.

The most exciting news to present this year is that we (you!) broke the all-time record for total log submissions with a combined total of 19,005, easily surpassing the 2021 record of 18,414 entries! Coming off of a strong SSB performance, CW did not disappoint with 8,429 logs being received. With all those logs in the bank, we collectively generated 53,536 unique calls in 192 entities for a total of 5.1M QSOs! And, with all that data, we were able to cross-check 95.6% of all logged QSOs. Our computers have been white hot over the past weeks.

I always enjoy taking a test drive through your soapbox comments. There are some real gems buried in the entries. You can check them out for yourself at:

<https://cqww.com/soapboxcw.htm?yr=2025>.

Here's just a small sample of what you'll find:

- “It's always a pleasure to meet W1WEF on the air. We first worked each other in the CQ WW's of the 1950s!” – DL3AO.
- I am still learning CW, but managed to enter the 2025 CQ WW contest and even call CQ a

few times! I can't wait to do it again next year – ES3YJ.

- The wall of CW that was calling me was quite incredible. And, all with only a K3, 100 watts, and a 53' end-fed wire – PJ7UK.
- After 59 years of ham radio I finally entered the CQ WW contest! Great band conditions and a lot of fun! – WB2FQL

Scores, Records, Personal Achievements!

There is nothing better in a contest than good conditions. When you combine that with the inertia of the CQ WW contest, you have the makings of an incredible operating event. The CQ WW CW contest did not disappoint any of us in 2025. In fact, I'm convinced that we could have a X.10000.0 solar flare that generates an A-index of 100,002 and the bands would still be loaded with signals. As measured by activity, number of received logs, and total QSOs made, the WW train simply can't be stopped!

The 2025 CW event was another year for records, with well over 100 set across all entry categories. Speaking of records, the World Single-operator battle was simply epic this year. In one of the most competitive engagements in recent WW memory, perennial champions and close friends Dan, N6MJ and Chris, KL9A battled it out from EF8R and CQ9A respectively. After a 48-hour hard-fought race, Dan prevailed, smashing last year's recording-setting performance by D4DX (E77DX) with a score of 26.5 million. Chris's 23.8 million second place finish also broke the record – a huge accomplishment as well.

Speaking of smashing records, the U.S. Single-operator, All-band category was completely dominated by Milen, LZ5DB, who remotely piloted the K1LZ superstation to an amazing final tally of 13.3 million, beating the previous

high score by over 2 million points! That score was accomplished with 6,165 QSOs or 128 QSOs/hour for the entire contest. In contrast, Vic, W4KFC, won the first 1948 U.S. single-operator category with 433 QSOs and a final score of 277K! Milen achieved the same result in the second hour of the contest. There were also several fine single-op scores that followed the LZ result, including several “Western” top-ten entries such as K5GN (TX), N9RV (MT), and K6XX (CA).

Bud, AA3B, dominated the World Single Operator Low Power theater, narrowly beating the previous PZ5CO record with a final result of 14.8 million. It’s inspiring to see what can be done with only 100 watts as Bud has demonstrated time after time in the CQ WW.

We had a new participant in the World Single Operator QRP group – well-known contester Willy, UA9BA, who piloted his lakeside Ural location to an outstanding 2.1 million final score (Willy’s personal story follows). That score works out to 1584 QSOs. Not bad for five watts, Willy! Long-time CQ WW Committee contributor Doug, KR2Q, took the U.S. honors with a very respectable 1.6 million result.

The World Single Operator Assisted category had a new twist this year as the top-two stations were both operating from Cyprus. In the end, P3X manned by Sergii, 5B4AMM (UT5UDX) won the battle with a huge record score of 19.8 million beating his own 17.2 million point score from last year. Jack, R2AA, operating P3AA, posted an impressive second place score in his own right, with an impressive 16.2 million points. Randy, K5ZD took first place U.S. from his new QTH in Ohio. A lot of people using autofill copied his exchange incorrectly as it changed to 04 after 37 years in zone 5!

For several reasons – station limitations, simplicity, reduced operating time – there is always a large number of single-band entries in the CQ WW. This year was no exception with several thousand having been submitted. The newly minted “operator from 40-zone man,” Marko, N5ZO, showed the world how to operate single-band 10 meters with a dominating 2.0 million point result from CW5W. Andy, 5Z4VJ, showed up on 15 meters again, leading the pack

with a final 1.9 million point score. Also, worthy of note is the achievement of LX1NO, who drove his way through noise and challenging low band conditions to a 144K result on the “gentleman’s band,” 160 meters. No worries low-band enthusiasts; your time is coming soon.

The world of multi-op contesting continues to thrive in the CQ WW. This year, we had 332 entries across all multi-op categories. That represents over 1,000 contestants spread across that group. There was a tough battle within the Multi-Single crews with Team PJ4A taking the win at 19.0 million. Jeff, KU8E, and team (minus K4BAI this year), continue to put this WW regular on the air, year after year. The Multi-Two battle was won by another CQ WW regular, Team CR3A, who posted a huge result of 44.0 million. And lastly there is the giants of contesting – the multi-multi entries. Yet again, CN3A, dominated the field demonstrating that a good location, great operators and amazing planning can produce a winning score of 50.7 million, all accomplished by 11 highly-skilled OK/OM team members.

The Youth entries this year continue to inspire the older folks amongst us (I include myself in that aging category). Jamie, M0SDV, showed the contest community what a 25-year-old can accomplish from J38W, delivering an amazing 8.4 million single-operator score. What were you doing in ham radio when you were 25 years old? I’m going to guess that most of you weren’t making 6,000 QSOs in a CW CQ WW!

Finally, at the risk of being repetitive year after year, the Frankford Radio Club and the Bavarian Contest Club each won their respective Club categories yet again. Focus, training, recruitment and score maximization are part of each club’s culture. It’s no wonder they win so often! Congratulations!!

Indeed, another amazing year for the CQ WW CW Contest. Your participation is what makes it all work. Thanks for being part it all!

How Fast Can You Work Them?

For many of you, the CQ WW is a rate contest, especially if you have the opportunity to operate from a great station or rare location. It's one thing to log a fast rate; it's quite another to enter the data accurately.

For most of the top operators, high-rate achievement does not happen accidentally. Just like preparing for an Olympic event, many of these competitors spend days (months?) ahead of the contest honing their skills by practicing high-rate techniques. This relentless investment in time includes ensuring their brains are wired to effectively use the latest SO2R and 2BSIQ (all code for 2 or 3 radios in action) techniques. Honestly, working nearly 400 stations in an hour on CW as a single-op boggles the mind – at least mine!

I should also point out that Bud, AA3B, made the high-performance list while running low power from V26K – nothing short of an amazing accomplishment.

If you want more data, an even more extensive analysis of rates can be found at <https://cqww.com/rates/>.

Entrant (Op.)	Best Hourly Rate
EF8R (N6MJ)	384
ND3T (LZ5DB @K1LZ)	373
V47T (N2NT)	365
CR6K (CT1ILT)	363
CQ9A (KL9A)	351
V26K (AA3B)	343 (LP)
EF6T (EA3M)	335
P3AA (R2AA)	332
TO7A (UT5UGR)	331
5J1DX (E77DX)	328

Table 1 – Top 10 Single Operator Hourly Rates for the 2025 CQ WW CW Contest

Some Categorical Analysis

It is always interesting to look at the trends presented by the categories being chosen in the CQ WW. The battle between Assisted and Unassisted operators continues with 3,112 vs. 2,260 entries respectively. Clearly, the overall favoritism towards use of assistance continues whether you look at it globally or on a continent-by-continent basis.

Category	AF	AS	EU	NA	OC	SA	ALL	Total %
SOAB High Assisted	5	142	690	690	22	19	1,568	27.5%
SOAB High Unassisted	6	125	218	189	21	8	567	9.9%
SOAB Low Assisted	4	180	784	430	16	40	1,454	25.5%
SOAB Low Unassisted	10	322	783	337	38	33	1,523	26.7%
SOAB QRP Assisted		7	65	12	3	3	90	1.6%
SOAB QRP Unassisted	2	28	97	31	7	5	170	3.0%
Multi-2	2	9	33	19	2	2	67	1.2%
Multi-Distributed		4	10		2	1	17	0.3%
Multi-Multi	2	5	16	16	1	2	42	0.7%
Multi-Single High	1	18	74	31	4	5	133	2.3%
Multi-Single Low		17	39	10	2	5	73	1.3%
Totals	32	857	2,809	1,765	118	123	5,704	100.0%
% by Continent	0.6%	15.0%	49.2%	30.9%	2.1%	2.2%		

Table 2 – 2025 CQ WW CW Single-op breakdown of power categories by continent

Getting it Right – Accuracy Champions

In the end, we define winning as the entrant that posts the highest score in their category. It's one thing to "win the contest." It's quite another to do so with an impressive degree of accuracy. This year's accuracy champions are listed in Table 3. It should be no surprise that most of them are also top scorers in the results. Indeed, accuracy matters!

Entrant (Op.)	Continent	Power	Raw QSOs
V26K (AA3B)	NA	LOW	9,177
VE2IM (VE3DZ)	NA	HIGH	6,508
NN7CW	NA	HIGH	3,924
V85RH (JO1RUR)	OC	HIGH	3,562
IS0AFM	EU	HIGH	3,408
WH7T (WH7W)	OC	HIGH	2,674
K2NV	NA	HIGH	2,118
WW4XX (LZ4AX)	NA	LOW	1,937
K1BX	NA	LOW	1,897
LY5W	EU	LOW	1,747
VE6BBP	NA	HIGH	1,669
J11RXQ	AS	LOW	1,610
RN5AA	EU	HIGH	1,470
ZD7BG	AF	HIGH	1,458
SP1AEN	EU	LOW	1,453
IZ3NVR	EU	QRP	1,375
DL8ULF	EU	LOW	1,354
JS1OYN	AS	LOW	1,338
HA5PP	EU	LOW	1,281
DL2NBU	EU	LOW	1,270
OH1LA	EU	HIGH	1,240
KR2Q	NA	QRP	1,237
W4EF	NA	HIGH	1,185
ED3Z (EA3DZ)	EU	LOW	1,182
LY5G	EU	QRP	1,161
OK2MBP	EU	LOW	1,159
RK6O	EU	LOW	1,121
SP6GCU	EU	HIGH	1,110
HA8WZ	EU	HIGH	1,102
SF6W (SM6EWB)	EU	LOW	1,100
RA3YDA	EU	LOW	1,057
9A2EY	EU	LOW	1,040
G4DDL	EU	LOW	1,008

Table 3 – Single Op, All Band (Unassisted) Entrants with >99% QSO Accuracy in the 2025 CQ WW CW Contest

A Few More Director Comments

As with any contest report, there are always a few areas that need attention and support from the contest community. I am pleased to note that overall, the participants in the CQ WW contest take the concept of "fair play" seriously. In a competition such as ours, the bands are filled from one end to the other. It's natural that conflicts will arise. However, these incidents are rare and reflect our collective desire to focus on the collective goal of getting valid, two-way QSOs into our logs!

I do want to highlight a couple areas of competition that could use some improvement. Last year, I mentioned that there were a number of bad signals on the bands. They ranged from AC hum, clicks, and more notable broadband noise that spread out well beyond reasonable limits. We acted on this issue this year and will continue to focus on this area.

In addition, we observed a significant number of stations that were self-spotting. Although this practice is now allowed in many contests (e.g., ARRL events), it remains prohibited in the CQ WW. Unfortunately, we identified 30 entries that engaged in self-spotting during the contest. Not a large number as a percentage of the whole, but significant, nevertheless. Most of these entrants received a warning as it was clear they just didn't know the rules; a few were excessive enough to warrant disqualification. Simply put, always read the rules. A policy (or trend) in one contest does not necessarily flow into ours.

Lastly, while it may appear to be common sense, we note that a meaningful number of busted calls take place because the operator clicked on a spot and didn't take the time to actually copy the call. The obvious lesson to be learned is that you can't depend on what appears on the screen to be accurate. The fastest path to a more accurate log is to develop an unrelenting discipline for copying what is actually being sent on the air – whether it's via a spot or simply tuning the bands.

Many, Many, Many Thanks!

There is an incredible amount of work that takes place each year to produce the results that you are reading! Most of it takes place behind the

scenes as the best log checking team on Earth quietly does their work without fanfare or the accolades they deserve. I'm proud to acknowledge the following CQ WW Contest Committee members that make it all happen: AA3B, Bud Trench; CT1BOH, José Nunes; EA4KD, Pedro Vadillo; F6BEE, Jacques Saget; G0MTN, Lee Volante; HA1AG, Zoli Pitman; IK2QEI, Stefano Brioschi; JH5GHM, Katsuhiko (Don) Kondou; K1DG, Doug Grant; K1EA, Ken Wolff; K3LR, Tim Duffy; K3WW, Charles Fulp; K5ZD, Randy Thompson; KR2Q, Doug Zwiebel; N3QE, Tim Shoppa; N9RV, Pat Barkey; LA6VQ, Frode Igland; N9RV, Pat Barkey; OH6LI, Jukka Klemola; PA3AAV, Gert Meinen; RA3AUU, Igor (Harry) Booklan; S50A, Tine Brajnik; UA9CDC, Igor Sokolov; VE3EJ, John Sluymer; VK2IA, Bernd Laenger; and YO3JR, Andrei (Andy) Ruse.

Finally, within every team there are a few members that go beyond the call of duty,

investing countless hours, often taking on tasks before being asked. This group of incredible contributors includes: AA3B, F6BEE, K1EA, K3WW, K5ZD, KR2Q, N3QE, OH6LI, VE3EJ, and YO3JR.

And thus the 2025 CQ WW CW report is officially complete. Even as you read these closing words, many are already planning for the 2026 contest. Our solar friend will still be an accommodating partner with this year's event promising to be better than ever. I hope that you can join with tens of thousands of other contest enthusiasts in what is indisputably the world's best contest – the CQ WW CW – in November!

73, John, K1AR

CQ WW Contest Director

Stories from the 2025 CQ WW CW Contest

Experiencing the CQ WW from Israel – 4X1MM

I have been taking part in the CQ WW contest since 1978. I always view this contest as a celebration of skills and patience. And, of course, a great opportunity to meet with my friends on the air. There are some fundamentals that I've learned over the years of my operating from my QTH in the city of Kfar Yona, located in the Central District of Israel. They include:

- **Advance preparation**

I take this aspect very seriously and always prepare and test all the equipment, often built for contests by myself. This includes antenna maintenance and cleanup, and transceiver and amplifier testing on all the relevant bands under load.

- **Operating setup**

Currently I am using a Yaesu FTdx101D transceiver, driving an ACOM 2000A power amplifier and OptiBeam OB6-3M antenna. My Elecraft K3 transceiver and Elecraft KP500 power amplifier is on standby as a backup system.



Photo 1 – A fine looking shack without any paper in sight at the QTH of Arthur, 4X1MM.

- **Band conditions**

The conditions on 20 meters in 2025 were relatively poor in the Middle East. It felt like I had to fight for each QSO. In fact, on the second day of the contest my hourly rates were the lowest I've ever had in a contest.

- **Contest strategy**

I competed in the Single Band (20 meter) High Power Unassisted category. Approximately 80% of the time I was in "RUN" mode calling CQ with the remainder

searching and pouncing for QSOs and new multipliers.

- **Triumphs and disappointments**

I made 1400 QSOs during the first day of the contest and count it as an acceptable achievement and personal triumph. Due to the poor propagation in my part of the world, I only made 600 QSOs during the second day with very low rate per hour, which I can only count as a disappointment. Highs and lows indeed.

Thanks for the opportunity to put Israel in so many logs and for your effort to be in mine!

73! Arthur Avrunin,4X1MM

Youthful Contesting from Croatia – 9A3VMT

I am a hobbyist and love making a wide variety of devices and electronic gear. While the skills of electrical and mechanical engineering have been part of my hobby adventures, I discovered there was one pursuit that I was missing -- ham radio.

Living in Dubrovnik as a 17-year-old teenager, I am new to the ham radio. However, my ham radio career began several years ago, when my brother got his license (also at the age of 17) and, now at 26 has built a contest station of his own. When I saw that you can communicate with rest of the world with just one radio station and relatively simple antennas, I was hooked. I immediately started to learn how radios and antennas work, and, after gathering enough knowledge to passing the entrance “P” exam, I started learning morse code, which took about three months!

After developing enough confidence, it was time to try CW contests. I had lot of fun during this CQ WW CW contest, entering the contest without any meaningful expectations; just a simple goal to have some fun. Much to my surprise, I won the Rookie, Low power category in the contest! Of course, it helped me to be able to use my brother's radio station consisting of an ICOM IC-7300 and his two homemade tri-bander antennas for 20- through 10 meters. One Yagi was on a big 16-meter tower, with the second one located on smaller 9meter tower. On 40 meters I had a

single vertical with 10 elevated radials.

Unfortunately. the big 80/160-meter antenna was down for repairs I couldn't make any QSOs on those bands.

Overall, I was very pleased with my result. I want to thank my brother, Srdan, 9A3SMS, for letting me use the station and to Matko, 9A3VM, who provided countless evening mentoring sessions with me.

73, Vlaho, 9A3VMT

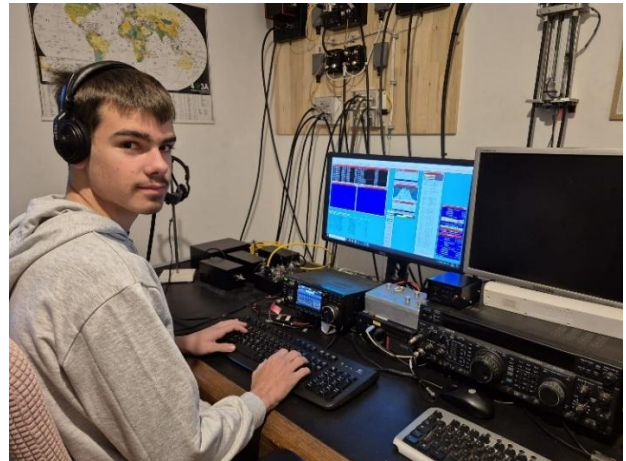


Photo 2 – Don't be fooled by the youthful look of Vlaho, 9A3VMT. This guy knows what he's doing in contesting!



Photo 3 – These are the modest antennas, Vlaho, 9A3VMT, used to win the Rookie Low Power category in his first CQ WW CW contest.

Teenage Operating from the Black Forest of Germany – DL7PIA

My name is Pia, DL7PIA. I am 18 years old and my QTH is in the southwestern part of Germany at the edge of the Black Forest. I had a lot of fun in this year's 2025 WW CW contest. To work a 48-hour contest is quite challenging but brings with it a lot of fun and an exciting experience I wouldn't want to miss.

This year, I used simple equipment, a 100-watt Yaesu FT-991A transceiver, my morse key and wire antennas. On the first day of the contest the conditions were variable and sometimes difficult for a low power station, but conditions improved on the second day providing some great DX openings from all around the world. It's always great fun to hear many of my friends during the contest making the experience even more special!

My strategy is very simple to explain. I try to adapt my operating approach to the conditions on the bands. My focus is to always exploit the best that propagation offers at any given time. A contest like the WW is also a great chance to improve my skills and to discover what is possible. For me, these 48 hours are always very exciting and informative. They are always a great experience. And the most important thing is to have fun! As a small station with simple equipment, you often need a lot of patience, but there is nothing more exciting than finding rare station who confirms your call through a big pile-up.

I'd like to encourage all radio amateurs, especially newcomers and youngsters like me, to participate in contests like the CQ WW CW, even with small stations and antennas. You will be surprised how much fun it is!

After operating two straight days on CW, I seemingly heard CW signals almost everywhere after the contest. Even the sound of the dishwasher appeared to send CW notes! CW has become my favorite mode and will always be like music in my ears!

I want to thank all the stations who answered my calls. It was great to meet my friends as well as many new stations on the bands. It was fantastic

to have a CW QSO with all of you! Also, a big thank you to the CQ WW Contest team for organizing these great contests every year! I hope to hear you many more times on the bands in the future!

73 & 88 de Pia, DL7PIA

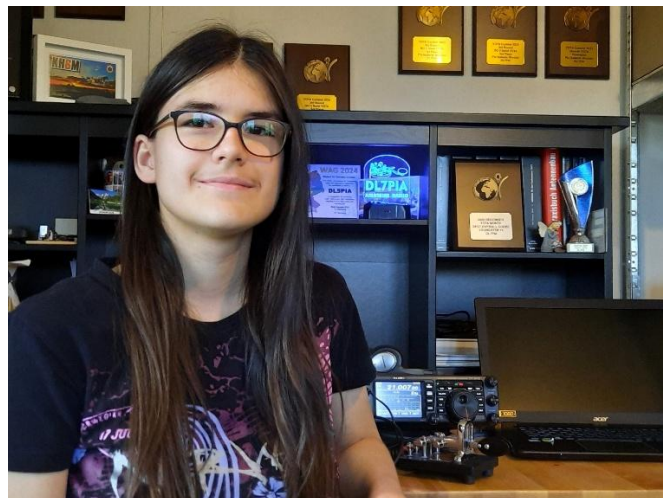


Photo 4 – The awards are starting to pour into the shack of Pia, DL7PIA.

Chasing the CQ WW CW from Paradise – EA5KA

We had always dreamed of operating in the CQ WW CW from EA8. Back in 2022, we had an amazing experience at EF8R, and this year the opportunity came again thanks to an invitation from Manolo, EA8DO, to run CW from his incredible contest station. Manolo is a true legend on the beautiful island of La Palma (EA8). In fact, in 2025 he was inducted into the EACC Hall of Fame – the largest contesting group in Spain.

Our usual team of EA1DAV, EA7X, and myself (EA5KA) quickly organized our adventure, but this time with the addition of Christian, EA3NT. Christian is a top-notch CW operator and a great travel companion. I've shared expeditions with him to some of the most remote islands in the world.

The plan was to enter Multi-Two High Power. But fate had other ideas. Two of our luggage cases with critical gear such as our tetraplexer and filters went missing at Madrid airport. That forced us to rethink everything. In the end, we made the difficult decision to switch to Multi-Single. In hindsight, it was the right call. Competition in

Africa was fierce, and CR3A crushed it with over 46 million points. Congrats to them!

The station is a dream: monoband antennas for the high bands, dipoles and verticals for the low ones, and a beverage RX for the low bands. The site is quiet, but EU/AS directions are partially blocked, making 80 and 160 meters a real challenge. Breaking through EU pileups took serious effort, but persistence paid off. All with two K3s and a pair of OM amps operating at legal power.

The fight in our category was intense until the last minute. We battled PJ4A from their amazing Bonaire station who did a stellar job! Hats off also to LZ5R in Europe as well.

Watching the race unfold in real time was pure adrenaline as we are already dreaming about the next time!

73, Raúl, EA5KA



Photo 5 – Team EF8R including EA1DAV, EA7X, EA5KA, EA3NT and EA8DO.



Photo 6 – Just a few of the antennas needed to make a #2 World High 17.9M Multi-Single score in the 2025 CQ WW CW contest from ED8X.

An Armenian Adventure in the 2025 CQ WW CW Contest – EK8A (OK1DTP)

My participation in the 2025 CQ WW CW contest as EK8A required advance coordination with local amateurs because Armenia is not part of CEPT, so local operating authorization was necessary. I worked together with Samvel, EK6SS, Hayk EK1RR, and members of the EK8A club station in Yerevan, who kindly supported the preparation. Since the club's Delta loop antenna did not effectively cover all bands, most of the pre-contest effort focused on building and tuning simple but effective wire antennas. We installed a sloping dipole for 80 meters directed toward Europe and North America, and an inverted-V for 160 meters with both antennas being installed on the last day before contest.

For my station, I used a Kenwood TS-480SAT and a simple Windows laptop with N1MM contest software. By entering the Single Operator All Band Low Power category, the 100-watt limit required a careful approach to both propagation and operating strategy. On the lower bands, I relied heavily on the newly built antennas, which performed better than expected.

The contest begins at 04:00 local time in Armenia. High-band openings were shorter than I had hoped, but 40 and 80 meters were consistently productive. At peak times, I was able to run as many as four to five QSOs per minute. Europe was naturally the most productive region. And, of course, I was pleased to work 198 OK and 53 OM stations, many of them answering quickly to my calls. North America and Japan were more challenging, with only 97 U.S. and 47 JA stations making it into the log, but each contact was satisfying given the limits of my low power from this location.

In the end, I finished with 3,848 QSOs, which exceeded my expectations for a low-power effort from a modest station. The experience was a mix of small triumphs—especially the low-band performance—and the usual challenges of unpredictable propagation, but overall, it was a memorable and rewarding contest. My sincere appreciation goes out to all who worked me!



Photo 7 – David, OK1DTP, ready to put the relatively rare Armenian multiplier on the air from EK8A.



Photo 8 – The primary support structure used at EK8A for the newly installed wire antennas.

Experiencing the WW from “One Happy Island” – P40L

Going into this contest, our team debated the pros and cons of high vs. low power. On one hand, we already held the record in the LP category from our 2023 effort. However, the high rates and higher success rate chasing multipliers make high power a lot of fun. No matter what, we had our hands full experimenting with remote operation (K4/O to K4D, using SoftEther™ to connect to the shack LAN) and alternate arrangements for the in-band S&P station. It was already challenging enough to fit four operating positions (Run, Run Partner, In-band S&P and Mult) in the small 80 square-foot radio room. Weighing these considerations, we decided we had enough on our plate and opted for low power again.

Conditions before the contest were not encouraging and we thought we might regret our decision; however, during the contest, conditions were surprisingly good, with high rates on 40 through 10 meters even though we were low power. However, 80 and 160 meters were a struggle, as expected, as were many of the mults that could be heard but not worked. The lack of HP was felt most acutely during the night hours and during the second 24-hour period of the contest when rates generally were lower.

This was our third post-pandemic contest experience with in-band S&P. We decided to experiment with dedicated in-band S&P antennas instead of the more common approach of using a 2x2 switch to share transmit and receive antennas between the Run and In-band S&P stations. The in-band S&P antennas were (1) an A3S tri-bander at 32' located about 600' away from the main antennas, and (2) a 40/80 inverted V with the apex at about 40' located about 400' away. We wanted to try this approach because, in our prior WPX operation, the shared receive antenna was picking up so much noise from our transmissions (even though the receive antenna for 10-20 meters was about 700 feet from the main transmit antennas) that our in-band S&P transmissions significantly impaired the run rate.

We believe this was due to interaction between our main transmit antennas and nearby metal roofs.

The dedicated in-band S&P antennas approach was highly effective at minimizing interference between the Run and In-band S&P stations and made it possible for the In-band S&P station to work stations as close as 3 kHz to our run frequency without adversely affecting the run op. The downside, however, was that we had not fully anticipated the effect of the losses that resulted from 600+' of RG8U-type feed line and the multiple junctions and switches, especially on the high bands. After the contest, we estimated that we were only delivering about 20 watts to the A3S on 10 meters! Thanks to everyone who heard us nevertheless!

Although he was going to be on vacation with his wife in Vancouver during the contest, Ed, W0YK/P49X, agreed to help us remotely during the night hours even though it meant being a tourist during day and contesting through the night – an exhausting schedule. We did a fair amount of testing with Ed's recently released K4/0 during the weeks prior to the contest. Lots of dialogue with Elecraft and several updates to the K4/0 firmware resolved some initial issues. Even with expert help from Bob, N6TV, and others, much more work is needed.

In the end, we had an incredible contest experience. And, as always, we greatly appreciated all the Qs.

73, John, W6LD/P40L, on behalf of the P40L CQ WW CW 2025 team: WD6T, N7MH, W0YK & W6LD



Photo 9 – Some of the P40L team thought the tri-bander might be more effective if raised just a little higher.



Photo 10 – Here is Dave, WD6T, at the Run station and Mike, N7MH, at the in-Band S&P station at P40L.

Friendships at their Finest at PJ4A — KU8E

For over 20 years my friend John Laney, K4BAI, and I have been travelling to Bonaire to operate contests from the station owned by Noah Gottfried, K2NG/PJ4G. For the first four years, we could only operate the ARRL DX CW and WPX CW contests since the CQ WW DX contest weekends were reserved for others. In late 2006, however, the station became available for the CQWW DX CW contest. Unfortunately, I wasn't able to go that year, but K4BAI invited K1TO and N4TO to join him for the first of many PJ4A contest operations. John and his team won the Multi-Single category that year, also setting a new world record.

It was in 2007 that K4BAI and I started our annual pilgrimage to Bonaire to operate as PJ4A in the CQWW DX CW contest. We entered as a Multi-2 for many years but simply couldn't compete with the stations in North Africa such as CR3L and D4C. However, we proudly came in second place many times! There were a couple times that we managed to win the Multi-Single category for the world – some of our most cherished contest accomplishments.

Since CQWW DX CW is around Thanksgiving here in the USA it's hard for us to recruit operators to come with us. During all the years we've traveled to Bonaire for the CQWW DX CW contest we've had over 20 operators join us. What a great way to build friendships with our fellow testers.

Our 2025 PJ4A Multi-Single effort was different than all the others. John, K4BAI, turned 83 years old and for various reasons decided not to travel to Bonaire for the contest. This ended a very long streak of us going to Bonaire together for the contest. Two operators who've operated with us over the last few years, Roger, N4RR, and Pat, N8VW, joined me. Roger was also able to recruit Axel, DL6KVA, to join the team. Axel is a world class DXpeditioner and an excellent CW operator – a huge addition to our group.

We have a wide variety of receive antennas at the station in Bonaire. Unfortunately, most of them have to be installed and then taken down after the contest. Generally, we don't have

enough operators or the time to accomplish this. This year, we had the luxury of Roger and Axel being able to travel to Bonaire over a week before the contest. They installed all the receive antennas along with the antenna switching and the usual antenna tasks. We also hooked up the ACOM 2S1s so we had an in-band radio on both the run and multiplier station. This significantly helped our score.

If you're interested on finding out more about the station, check out <https://pj4g.com/>

Looking forward to 2026! See you from Bonaire!



Photo 11 – The comfortable setting for contesting from PJ4A.

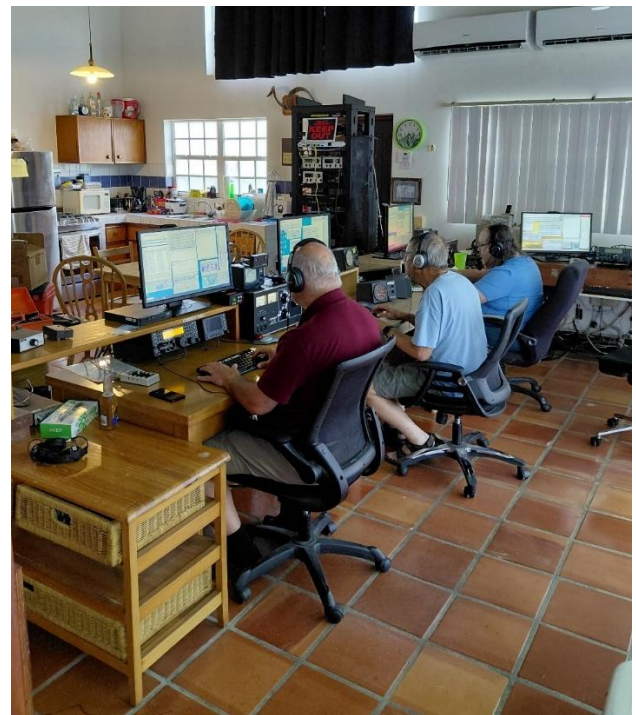


Photo 12 – No resting for the PJ4A operating crew in the 2025 CQ WW CW Contest.

Work and Contesting from Slovenia – S53X

For this year's contest, due to work obligations during the daytime, I again decided to operate exclusively on the 80-meter band. This band offers the best use of the nighttime hours. With the work-play balance in place, my preparations began with choosing antennas that would allow for high rates, good selectivity, and efficient searching for new stations. The main antenna was a phased vertical array, which provides excellent low takeoff angles. In addition to that, I set up an inverted-V antenna as an extra in-band antenna, as well as two BVG antennas aimed toward the USA and Japan. The BVG antennas proved to be very useful for receiving weaker signals.

The contest started with a bang. In the first hour, I logged 135 QSOs, and the same result followed in the second hour, confirming that both the antenna setup and the chosen strategy were correct. Later the QSO rate dropped slightly, which is normal for this band, but it remained high mainly thanks to intensive in-band work with the second receiver on the Flex-6600.

With the second radio, I continuously scanned the band, picked up stations calling CQ, and occasionally logged new ones that appeared during the run. This approach made it possible to quickly identify new stations, find them on frequency, and copy their callsigns without excessive waiting. Operating with two receivers requires a lot of concentration, but it allows for a much better use of time, as you can maintain a RUN while simultaneously searching for new multipliers. During S/P work I often came across multiplier stations that had either just started operating or already had a noticeable pile-up. In most cases they often responded to my first call, which further sped up multiplier collection.

The first night ended with around 700 QSOs, which was a very good result considering the conditions. The second night, which lasted a full 16 hours, brought another 700 QSOs, while the final evening was dedicated mainly to S/P work,

as the RUN became less productive toward the end of the contest.

Throughout the contest I continuously uploaded my results to OnlineScores, which has become an indispensable tool for tracking progress and comparing performance with other stations in real time. This way of monitoring adds extra dynamics to the contest, as it allows on-the-fly tactical adjustments and gives a better sense of how I'm doing compared to other competitors.

The final result was 1,750 QSOs, 93 multipliers, and a total of 277,875 points. Since the contest in Europe ends at 1AM and I had to leave for work before six, there was very little time for rest. After returning from work, I still had to take down the phased vertical antennas, which have done their job for this season and are now waiting for the next one. Work and radio balance – a big challenge for many serious contesters!

73, Milos, S53X



Photo 13 – If you worked S53X and wondered why Milos was so loud, now you know!

Being a Rare Multiplier in the Seychelles is Fun! – S79/OK6RA

For the 2025 CQ WW CW contest I had the opportunity to operate from the Seychelles under the call sign S79/OK6RA. The operation took place on Praslin Island and was combined with a family holiday, which influenced both station design and operating strategy. The entry was Single Operator, Low Power, Assisted, and limited exclusively to the 15-meter band.

The choice of QTH was made very deliberately. Before the trip, special attention was given to selecting a location with clear and unobstructed

takeoff directions toward Europe, North America, and Japan. The holiday accommodation was located on an elevated hillside above the coastline. This hilltop QTH on Praslin Island provided open visibility toward the ocean, excellent radiation conditions, and a very quiet RF environment.

Advance preparation focused on simplicity, portability, and effective use of the available space at the holiday QTH. The operating position was set up indoors using a SUN SDR DX2 transceiver connected to a laptop running N1MM Logger+ contest software. Outside, the antenna system consisted of two Moxon antennas for 15 meters installed side by side on separate 12-meter masts. The antennas were combined using a home-made antenna combiner, allowing efficient operation with low power while maintaining useful directivity.

Despite the modest nature of the antenna system, its performance exceeded expectations. The elevated position and open takeoff toward the ocean significantly enhanced the effectiveness of the antennas, particularly toward Europe and North America. Local noise levels were extremely low, which greatly improved copy and overall operating comfort.

Operating from a single holiday QTH required a clear separation between contest activity and family time. During the contest, family members spent their time at the beach, allowing uninterrupted operating periods during selected high-activity windows. This made it possible to focus fully on contest operation despite the non-contest nature of the trip.

To keep the operation efficient and realistic, I decided to concentrate entirely on the 15-meter band. Europe provided strong and consistent signals throughout much of the contest and formed the backbone of the QSO total. Openings to North America occurred regularly and produced enjoyable running periods. Conditions toward Japan, however, were disappointing, with only limited and weak openings observed during the contest.

Contest strategy was intentionally straightforward. Assisted spotting was used to monitor propagation changes and multipliers, while operating focused on the strongest

openings. Running was preferred whenever possible, supplemented by search-and-ponce activity when conditions shifted or rates slowed. One of the most satisfying aspects of the contest was offering a relatively rare Seychelles multiplier on 15 meters from a compact, holiday-style station.

The main limitations were operating time, the single-band restriction, and less favorable conditions toward Japan. Nevertheless, these constraints were expected and accepted as part of the operation. Overall, the experience demonstrated that a carefully chosen hilltop QTH combined with a simple but well-thought-out antenna system can deliver effective and enjoyable contest results.

Many thanks to CQ WW Contest Committee for organizing another excellent event, and to all the stations who worked S79/OK6RA. Operating from Praslin Island in the Seychelles was a memorable and highly rewarding CQ WW CW experience.

<https://photos.app.goo.gl/TVvt2zgG4w8AAmLB8>

73! Vaclav OK6RA



Photo 14 – The perfect combination: Rare DX and nearby salt water. Life at S79/OK6RA!



Photo 15 – This is one way to get your XYL's approval for a CQ WW trip. Vaclav, S79/OK6RA's wife also made the trip and is clearly enjoying her version of the contest!

Overcoming Adversity – TI5/VA3RA

As a disabled stroke survivor, what is routine for other contesters does not work for me. I am only able to use a CW keyer, not a keyboard, and a paper log, not a modern logging program. My 80+ paper log pages had to be transcribed by me to Excel after the contest, then to a text file, and finally to Cabrillo. A lot of work, but worth every minute of it!

The station here is very modest, comprised of a single Kenwood TS-590SG. The SIRIO 10m vertical antenna was chosen for its proven performance and low radiation angle when mounted on top of a 25-foot mast. Fortunately, my QTH is high in the coffee hills of central Costa Rica with a very low noise floor and a clear 360 degree horizon.

Ten meters has always been one of my favorite HF bands, so choosing a SOSB effort was an easy decision given that there was still some life left in solar cycle 25.

Thanks for a great contest - it's my favorite CW contest of the year for this 80-year-old, for whom every day is a gift.

73, Pete, TI5/VA3RA (VE3IKV)



Photo 16 – Nothing stops Pete, TI5/VA3RA, from his annual appointment with the CQ WW CW Contest.

Running QRP from Asiatic Russia -- UA9BA

My station is in the village of Karataban, Chelyabinsk oblast, located in the south Urals of CQ zone 17. My house has one acre of land that is located right on the eastern shore of the saltwater Karataban Lake. All my antennas are on one 31 meter tower.

I decided to go QRP in the 2025 CQ WW CW contest for several reasons. 2025 is most likely to be the peak year of the 25th sunspot cycle with the best propagation conditions on HF. Time for new records! The record tables for the UA9 region contain lots of high scores in High Power and Low Power entries, which are hard to beat from a medium-sized station like mine. The QRP record, however, showed the current SOAB record score by RW9RN of 1.3 M points, which seemed beatable. So, that became the first reason. The other motivating factor was my desire to go in for a real battle. A true full steam effort. The question, however, was my physical shape at the age of 68. I've already had SOAB QRP experience and knew it wasn't as intense as HP or LP SOAB operating and I felt confident in my ability to stay up for 40+ hours if I went QRP. The third reason was the U.S. Thanksgiving weekend during the contest. I thought it was good news for my QRP operation. Less activity from US stations on bands – more attention from the Europeans to the rest of the World. So, the QSOs with 3-point EU guys would come easier.

The planning was easy. On day one, concentrate more on QSOs; day 2 concentrate on both – QSOs and the multipliers. The multipliers come easier on the second day because of smaller pileups. Concentrating on QSOs can be done in two ways – Search and pounce technic and running. It sounds rather ironic - “running QRP,” but one can't win even on QRP without running them. The running technique on QRP is another trick one must learn. The essentials are – what band, what frequency, when to start, when to quit and change band for another run or may be go S&P instead for more Qs. There are so many variables and each plays a significant role in the

final score. That's what I like about QRP SOAB (unassisted) – "it ain't that simple when it comes down to the real battle!"

In the end, the battle was won! I'm glad I made the decision – as crazy as it may sound to operate QRP from remote UA9!

73, Willy, UA9BA



Photo 17 – A backyard view of Lake Karataban in the summer from UA9BA.

More Photos



Photo 18 – Carmine, IU8RIA, loves contesting. Can you tell??



Photo 19 – Marko, N5ZO, blasting away at CW5W. No time to smile at the photographer!

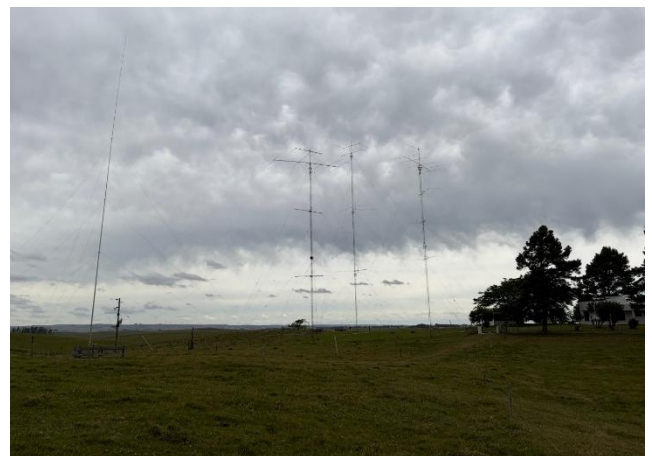


Photo 20 – No wonder the scores of CW5W are always near the top. Look at those antennas!



Photo 21 – Some of Brazil's finest operators, PT2IC, OH2MM, and PY2YU



Photo 22 – Dmitry, RA0LQ/mm, made a lot of people happy during his brief port stop in Zone 34 as he drifted in the Red Sea awaiting orders.



Photo 23 – There’s a ham antenna somewhere on the ship that was used by Dmitry, RA0LQ/mm.

New Score Records

These are the new World records that were set in CQ WW CW 2025.

Category	Call (Operator)	Score
SO HIGH ALL	EF8R (N6MJ)	26,516,025
SO LOW ALL	V26K (AA3B)	14,790,600
SA HIGH ALL	P3X (5B4AMM)	19,803,883
SA LOW ALL	P44W (W2GD)	11,654,244
SA HIGH 20M	PZ5DX (RA3CO)	2,225,483
SA LOW 10M	ZW5B (PY1NX)	1,437,156
SA QRP 15M	FY5FY	918,880
MULTI-ONE LOW	P40L (WD6T W6LD N7MH W0YK)	16,732,105
MULTI-TWO	CR3A (HA3NU HA7GN HA8KW OM2VL OM3BH OM3GI OM3RM OM7JG)	44,061,700
MULTI-OP DISTRIBUTED	RM9A (RG9A RA9AA R8AEC RA9AP RL9A UC9A RA8AO RC9A RW9QA UA9QFF RN9A)	21,664,880
ROOKIE LOW	9K2ES	3,550,008
YOUTH LOW	DJ4MX	2,808,496

You can see all new records set at the World, Continent, and Country levels on the website at <https://cqww.com/recordsthisyear.htm>

See new Overlay records at <https://cqww.com/overlayrecordsthisyear.htm>

Top Scores – WORLD

SINGLE OPERATOR HIGH POWER

All Bands

EF8R (N6MJ)	26,516,025
CQ9A (KL9A)	23,779,792
5J1DX (E77DX)	16,738,525
V47T (N2NT)	16,644,096
8P5A (W2SC)	15,095,487
CR6K (CT1ILT)	14,180,040
TO7A (UT5UGR)	13,576,275
ND3T (8K1LZ)	13,334,238
EF6T (EA3M)	11,532,136
VE3JM	10,332,279

28 MHz

CW5W (N5ZO)	2,021,172
ZD7VI (N6VI)	752,973
EF3W (EA3CX)	691,968
K2SSS	681,835
K1TO	649,952
YU0T	579,900
GM5X (GM4YXI)	541,150
N4OX	462,362
K8MFO	460,224
K2PS	439,898

21 MHz

ZD7VJ (5Z4VJ)	1,898,156
XE2X	988,315
EA8KR	952,011
JA5DQH	685,350
SN5X	614,990
WA3A	589,000
AA6KJ	573,990
F6ARC	544,790
R3ZZ	454,636
OH8WW	440,100

14 MHz

4L9M	880,776
4X1MM	739,200
DM0A (DK3DM)	669,115
CR3B (GU4YOX)	594,360
YT7BA	478,590
GM2V (GM3WOJ)	437,030
JA7FTR	340,658
W1RCR	309,625
GU4CHY	251,075
WJ9B	227,286

7 MHz

ED9U (EA5EL)	985,972
N2MF	792,749
IPOA (IS0JHQ)	669,848
W7WA	505,455
IO8T (IC8JOH/UR8QX)	492,411
II2T (IZ2EWR)	478,296
4L2M	375,440
JA6SHL	363,660
5X1DF	310,635
R4SA	175,933

3.5 MHz

S53X	250,800
OT4A	227,286
S51DX	205,800
R5WW	186,250
OG5B (OH5BM)	157,183
I4IKW	155,184
HA4A (HA4FF)	115,449
UR7UD	62,822
W3BGN	52,290
NT2DR	48,108

1.8 MHz

LX1NO	141,835
SP4T (IT9RGY)	111,700
VE3ZI	66,033
UN0L	55,998
NP2J (K8RF)	28,964
VE3PN	22,724
N4XD	15,314
UT3QU	12,600
OK2BMU	11,700
N4TZ	10,830

LOW POWER

All Band

V26K (AA3B)	14,790,600
EK8A (OK1DTP)	5,159,928
WW4XX (LZ4AX)	3,066,696
9J2FI (DL2RMC)	2,927,958
RA0LQ/MM	2,918,130
K1BX	2,437,593
N8II	2,161,621
4U1UN (KO8SCA)	2,097,278
LZ6E (LZ1GU)	1,927,991
JA1BJI	1,897,068

28 MHz

ZZ5K (PP5RT)	442,582
PY2WB	400,440
XQ3WD	363,528
LZ4TX	360,516
EA6UP	333,270
WB4TDH	281,295
EA5M	270,864
WP4TZ	253,004
WH2JA (JR3RIU)	217,467
KH6CJJ	202,137

21 MHz

5X1XA (G3XAQ)	595,309
VA3SP	262,400
NP3YL	226,024
DK0TZ (DL4AAE)	214,113
YL5W (YL2GN)	171,496
RC3U	151,011
RZ9AM	150,060
HB9ARF	145,509
7K4XNN	139,084
R9YU	138,787

14 MHz

EA3IN	360,912
EW1TZ	187,488
DL9ZP	177,255
GJ2A (MJ0ASP)	112,385
JI2MED	111,930
TA3JOH	100,920
LZ2PS	98,397
M7M (M0JWT)	80,960
WW4LL	80,640
S52GO	77,568

7 MHz

YT5W (YU8A)	305,370
HI3A	251,790
CO2JD	189,720
YU1ED	167,936
YU7EE	118,483
SN7J (SP7JYM)	104,400
YU7WW	102,190
YO5ODT	85,263
HA9RP	76,581
UR1HR	70,299

3.5 MHz

4Z5PN	235,796
OM5NL	135,700
OL5J	89,910
CO2AN	80,869
DL8WN	76,398
S53AR	65,949
SQ6ABC (LZ1ABC)	61,576
YT3E	49,032
HA8AR	36,380
S57X	35,770

1.8 MHz

OP3T	52,753
OK1MNW	29,172
DL2025E (DL6KWN)	25,730
4X0A (4X1VF)	22,350
EW1SK	21,890
OK1AGE	17,050
EW1M	14,160
OK1IP	9,585
LC9X (LA9XGA)	8,888
DL0NG (DK8NC)	8,112

QRP

All Band

UA9BA	2,151,562
KR2Q	1,564,662
IZ3NVR	1,440,543
DK7HA	800,415
DL1MAJ	604,359
HA5BA	529,397
HG6C (HA6IAM)	508,725
LY5G	498,440
JH1OGC	451,172
JR4DAH	394,420

28 MHz

D4Z (IK2NCJ)	358,853
VR2TA (VR2ZQZ)	201,394
4F3OM	91,352
JA6WFM	74,958
R1FB	53,880
KV8Q	46,545
BA7OLK	41,004
OK6OK	39,520
NF5P	39,105
F8AKC	28,595

21 MHz

K5RX	130,048
RW9RN	112,406
LZ2RS	86,829
HG60IPA (HA3JB)	84,606
OK2VWB	65,075
K1WAT	55,893
UA1CUR	49,749
RW3AI	44,370
YO3DAC	38,889
JR1NKN	28,200

14 MHz

ED3Q (EA3O)	137,970
SP1C	63,632
S51Z	48,880
OK1DWF	38,958
EA3QC	24,115
GW4W (GW4EVX)	11,178
YU7FA	11,055
EA3BES	10,556
TA2EHI	10,035
LY2LF	9,534

7 MHz

S50A	286,676
YU1RK	66,057
YO4BEW	54,180
YTOK	39,606
IW3ILM	33,781
N5ER	26,720
YO4LHR	23,760
VK2CCC	20,655
M3F (G3WZD)	18,971
UT3UUUV	14,460

3.5 MHz

TM8F (F8IPH)	49,446
YU3DX	42,174
DL2TM	12,036
9A3DML	11,985
YO8RIX	5,796
YT7M	2,805
7L3SQL (JH3LCU)	110

1.8 MHz

UR5FEO	16,697
DL1AOB	16,072
9A4QV	6,678
SP3IOE	3,852
WC4X	120
UA0LHS	56
BH3HHS	2
RE0LAA	2

SINGLE OPERATOR ASSISTED HIGH POWER

All Band

P3X (5B4AMM)	19,803,883
P3AA (R2AA)	16,155,580
KP4AA (KL2A)	13,093,740
II2Q (IK2PFL)	10,263,474
EA2W	9,335,970
K5ZD	9,254,250
ED7W (EB7A)	9,123,360
UP0L (UN9LW)	9,097,712
VA2WA	8,909,128
HG8R (HA8JV)	8,615,168

28 MHz

PX2W (PY2YU)	2,030,000
CE2LR	1,248,450
AZ1D (LW3DC)	1,049,235
TL8GD (SP5MXZ)	1,031,412
9A5Y (9A7DX)	946,368
AH2R (WI3O)	944,250
LT6T	786,738
AH6KO	768,108
KV2K (K2NG)	754,216
K1DG	739,142

21 MHz

4X6FR	1,091,728
9A5D (9A3ID)	1,021,404
SN3A (SQ2GXO)	996,933
S50K	909,609
HA5JI	908,901
VK4DX	868,790
NY3A	824,560
YT9A	786,036
YU9DX	771,680
HB9FAP	762,570

14 MHz

PZ5DX (RA3CO)	2,225,483
UN9L	1,174,446
YT3X	1,023,350
OK7K (OK1GK)	952,470
TM1T (F5TRO)	937,431
G5W (G3BJ)	870,252
HG5E (HA1AH)	828,176
YL2SM	724,625
PA1AW	687,360
OM2X (OM2XW)	635,607

7 MHz

UP4L (UN7LZ)	953,225
OK1Z	847,670
S51YI	794,402
S52AW	765,774
YT1A	745,359
KALIS	717,728
YL7X (YL2LY)	596,656
LZ5M (LZ5ET)	588,645
KB3WD	552,024
HA7A	493,190

3.5 MHz

FY5KE (F6FVY)	535,192
9A5M	499,360
9A1CCY (9A5DX)	454,024
R8TT	434,952
YL3FT	383,466
HA1TJ	329,160
S57Q	316,364
RN9N	288,756
YT6X	253,240
OE8TED	232,704

1.8 MHz

LY4A	165,672
DM7C (DL7CX)	129,030
S53O	123,394
LY0UKR (LY7M)	121,110
9A3JH	103,870
UT6UD	65,952
OK2W (OK2WM)	64,938
OZ4MM	55,186
UY0ZG	50,199
UW5ZO	49,282

LOW POWER**All Band**

P44W (W2GD)	11,654,244
UN4Q (UA4Z)	7,849,808
EALX	6,562,320
9Z4BM (N2TTA)	5,041,344
4U1A (YL2QN)	4,756,024
WP3A	4,205,635
OL5Y	4,152,800
K0EJ	4,015,575
DL3YM	3,696,378
YL73R (YL1ZF)	3,424,860

28 MHz

ZW5B (PY1NX)	1,437,156
PY3CW	940,632
F8DBF	594,612
EA1R	418,608
UP7L (UN6LN)	416,005
EA3NO	376,380
ED5U (EA5DF)	356,136
LU7HF	320,868
DQ1A (DK3QZ)	307,781
UY2UA	247,457

21 MHz

S79/OK6RA	843,199
YV4ABR	572,863
TM8O (F1AKK)	549,697
M2L (M0BJL)	380,290
HA9A (HA9AX)	322,410
EF6B	317,806
UN7LAN	311,616
SV5DKL	306,520
MI4I (GI4SJQ)	287,051
M6W (G3WW)	286,503

14 MHz

TM4W (F4DXW)	689,204
HG0R (HA0NAR)	398,542
YU5M	395,148
DL2NBY	350,436
9A1AA	307,581
9A2X	287,680
VA3FF	284,533
HG6O (HA6OA)	269,157
PS8HF	266,500
OM7LW	255,020

7 MHz

R7NW	640,104
HG9X (HA6PJ)	400,428
HA8IB	361,725
Z32TO	343,100
E73B	316,635
LZ7DX	274,816
ME5W (G6EMA)	229,756
YULLA	216,237
YT9VM	194,180
OM5ALL	190,138

3.5 MHz

E79D	233,947
LY7Z	212,480
YO5AVN	176,506
VP2MAA (J88BTI)	124,550
OH2PM	83,232
OM5KM	78,752
OK1USP	73,164
SP4AWE	69,192
G9F (G4BVY)	67,002
UY2UZ	62,568

1.8 MHz

HA8TKS	62,484
SN0R (SQ9IAU)	49,985
E73T (@E77CFG)	43,860
S51W	31,781
3V8LL	30,300
HA8BT	24,428
UZ1WW	22,165
YULLD	13,393
SP6IHE	9,063
HA8MV	8,970

QRP**All Band**

DM2M (DK3WE)	2,119,608
S53K	1,415,945
S51A (S55O)	1,211,288
DR3W (DL6MHW)	1,132,715
WLFJ	1,122,510
MW9W (GWOKRL)	727,415
OL4W (OK1IF)	722,016
LY5I	702,889
HG5O (HA5OB)	512,670
WQ6X	508,544

28 MHz

LT7D	176,456
G4ZFE	104,954
PU2UAF	98,643
JA6VZB	70,680
3G2S (XQ2OP)	69,048
VE6RST	63,812
UA9UR	59,512
JK7DWD	52,614
ON6QRP	41,492
OM7PY	36,627

21 MHz

FY5FY	918,880
BH4TQX	109,305
E70NA	104,652
G1G (G4KIV)	96,624
UW5ZM	67,415
JK6DXD	63,460
JQ1NGT	60,590
YB1UUN	54,824
GM3TTN	32,648
VE7SCC (VA7NR)	29,326

14 MHz

KT3Q	123,428
Z33C	122,407
SF0A (SM0LPO)	90,072
K8MV	68,154
IZ4REF	53,046
GW5P (GW0EGH)	33,327
OQ4B (ON4BHQ)	30,685
RT4W	27,730
YU1NR	24,390
SP4NKK	21,450

7 MHz

S52P	157,108
S58R	98,058
DJ2RG	89,252
DL1EFW	63,940
EA3QP	62,088
YB3MM	29,820
S57EA	15,340
TA2BKU	7,659
DG8WA	7,644
IK3JBP	5,734

3.5 MHz

OK2PYA	40,458
OK1FKD	35,880
4L5P	30,195
UT7NI	25,172
GW9J (GW0GEI)	19,950
K3TW	15,906
SP5C	14,136
PA6G (PE4BAS)	12,939
AC2YD	12,376
TC3CT	1,260

1.8 MHz

8S0DX (SM0DSG)	47,530
OL1A (OK1CW)	36,570
SF7AS	9,724
UR0FF	2,160
LY2BBF	544
N9SM	30

MULTI-OP SINGLE-TRANSMITTER**HIGH POWER**

PJ4A	19,048,260
ED8X	17,925,180
LZ5R	16,992,756
OM7M	15,707,136
E7DX	15,645,224
IO4M	14,351,574
NP3Y	13,473,863
A44A	13,316,222
EA5RS	13,291,108
9A7A	12,916,024

LOW POWER

P40L	16,732,105
P3CR	11,748,362
UW5Y	8,938,685
PJ5C	8,287,084
IO6T	7,988,791
E7CW	6,923,896
IO3F	6,434,895
JT5DX	5,930,400
ZB2BU	4,771,452
YU5R	4,088,557

MULTI-OP**TWO-TRANSMITTER**

CR3A	44,061,700
PJ4K	39,485,050
ZF1A	22,473,233
W3LPL	20,470,912
3B8M	19,575,680
IO4X	18,692,050
9A1P	17,370,192
ED1R	16,412,724
IP2A	16,168,086
CR2M	15,017,506

MULTI-OP**MULTI-TRANSMITTER**

CN3A	50,694,175
CR3W	42,103,332
TK0C	32,284,852
ZF5T	31,582,208
PJ2T	31,091,676
KC1XX	27,460,580
K3LR	25,053,721
ES9C	23,962,680
9A1A	23,547,902
M6T	22,878,496

MULTI-OP**MULTI-DISTRIBUTED**

RM9A	21,664,880
OT7T	13,718,932
YT9X	10,075,320
WP2K	7,140,770
9H6A	6,596,100
YU1A	5,986,760
OE2S	5,788,395
RW4W	5,474,310
BY4JN	2,925,867
LN2T	2,069,632

ROOKIE**HIGH POWER**

IU8RIA	2,010,660
ISOKNZ	244,972
W2DON	178,978
AI5QK	159,040
DA1EE	71,176
ES3YJ	29,640
KQ4MHE	28,305
IU8SDA	22,230
DF7TR	11,139

LOW POWER

9A3VMT	1,129,192
YL3RZ	626,092
W0DOS	390,583
9K2ES	378,450
S21FIA	318,240
PD8MD	205,110
RO3ZM	168,640
PC7W	131,018
YT2FW	129,404
N4IIT	126,445

CLASSIC**HIGH POWER**

KP2M (KT3Y)	5,423,884
VE2IM (VE3DZ)	5,130,313
R9DX	3,729,600
C4W (5B4WN)	3,173,940
3B9KW (M0CFW)	3,138,891
DL2CC	2,986,303
UA2FZ	2,960,030
RT4F (UA4FER)	2,846,988
N4AF	2,763,000
YT3D	2,724,318

LOW POWER

9J2FI (DL2RMC)	2,926,737
RA0LQ/MM	2,891,700
K1BX	2,437,593
N8II	2,161,621
LZ6E (LZ1GU)	1,927,991
LY5W	1,770,585
MI5I (GI0RQK)	1,679,592
ZM3A (ZL3WW)	1,638,597
EA4KD	1,516,689
XR1D (XQ4CW)	1,506,975

YOUTH**HIGH POWER**

J38W (M0SDV)	8,434,860
HA8TA	2,564,959
R8CI	220,820
HA3MAR	117,480
DS1UDN	48,832
R4ND	36,100
R4NC	11,648
DA1NEN	9,438
RO1A (R1BPI)	7,714
W3MLJ	3,706

LOW POWER

DL7PIA	1,987,776
JG1ZUY (JJ1AHS)	1,307,621
WV4AM	1,263,132
BH6IE (BD6IUT)	642,000
BX4AFI	475,940
HA1NB	472,850
VE3OMV	422,730
B11XJT	332,580
NU1D	305,970
SP5WAZ	132,192

Band Breakdowns

WORLD SINGLE OPERATOR ALL BAND

High Power

EF8R	283/13/52	1183/20/74	2242/31/97	2263/34/108	3316/35/113	3265/35/111
CQ9A	373/14/57	1374/21/83	2109/28/92	2272/35/109	2623/34/113	2468/33/103
5J1DX	147/13/43	546/20/75	1656/29/91	1547/32/85	2664/35/107	2445/30/95
V47T	179/12/40	939/19/77	2007/32/103	1890/34/104	2584/33/109	2313/28/97
8P5A	142/13/33	622/14/66	1552/26/89	1758/34/102	2548/36/114	2538/33/111
CR6K	380/13/59	1187/20/76	2072/32/93	1981/34/104	2678/35/112	1979/33/103
TO7A	126/12/38	566/19/75	1334/27/91	1442/31/99	2650/36/115	2440/32/100
ND3T	152/12/57	604/20/81	1612/34/117	1082/34/114	1511/34/115	1204/30/114
EF6T	383/11/51	1448/23/85	2113/30/101	1659/32/88	2105/33/106	1636/31/88
VE3JM	255/11/36	869/20/74	1557/28/89	1402/28/88	1594/28/91	1141/23/81

Low Power

V26K	101/8/19	828/16/71	1820/26/93	1658/32/101	2533/34/110	2166/32/106
EK8A	178/10/38	726/14/61	982/20/74	667/24/70	658/24/73	593/20/61
WW4XX	10/5/7	100/14/53	257/24/86	294/30/89	603/30/106	656/29/100
9J2FI	1/1/1	25/5/18	176/15/47	388/22/70	635/26/83	1245/27/92
RA0LQ/MM	121/9/39	271/13/48	481/21/61	638/24/72	443/21/67	250/26/60
K1BX	11/5/5	41/9/29	161/16/62	368/24/87	502/23/83	797/23/87
N8II	7/5/5	55/9/27	123/17/59	369/29/90	449/26/87	643/27/88
4U1UN	24/2/1	401/11/40	829/19/72	521/25/62	553/19/57	344/16/35
LZ6E	38/8/37	105/10/55	246/21/78	371/28/78	493/34/87	396/31/92
JA1BJI	21/8/7	109/19/22	375/28/72	225/30/64	623/30/72	404/32/63

QRP

UA9BA	86/8/26	126/9/41	265/21/67	376/29/78	412/26/90	319/24/72
KR2Q	9/4/4	53/12/27	190/14/76	292/23/86	394/20/85	293/23/79
IZ3NVR	37/4/21	260/12/67	274/27/95	228/21/77	307/31/94	256/29/81
DK7HA	126/6/37	311/9/51	221/9/52	168/16/54	280/22/60	185/23/46
DL1MAJ	29/5/19	169/6/49	187/16/59	168/17/54	128/24/47	169/23/52
HA5BA	12/3/10	254/8/50	244/15/59	249/13/58	165/13/37	152/20/37
HG6C	50/4/25	188/9/48	296/17/74	215/16/61	104/16/38	120/18/31
LY5G	111/5/27	273/7/44	244/11/53	238/14/56	181/18/54	108/19/32
JH1OGC	4/3/4	53/14/14	139/23/43	91/19/42	186/25/45	157/23/43
JR4DAH	0/0/0	10/6/5	150/17/41	97/17/42	223/20/52	151/22/38

WORLD SINGLE OPERATOR ASSISTED ALL BAND

High Power

P3X	394/18/69	641/29/108	1815/37/134	1358/37/136	1688/37/134	2008/37/137
P3AA	226/11/60	801/20/95	1823/35/133	1400/33/124	1494/35/124	1534/36/129
KP4AA	147/14/45	509/18/82	1265/32/112	1723/34/115	1610/36/120	1777/35/122
II2Q	130/13/65	754/23/101	1280/37/131	986/37/136	1323/37/141	865/38/138
EA2W	71/13/61	806/24/98	1181/37/128	902/34/128	1167/37/133	1245/37/140
K5ZD	47/13/30	197/19/77	1121/37/125	840/39/139	973/38/139	850/32/122
ED7W	110/10/51	466/23/95	1263/36/121	966/33/126	1327/37/133	1233/35/130
UP0L	275/10/56	755/17/73	1095/36/124	678/29/114	1005/32/128	694/31/114
VA2WA	211/11/45	535/17/86	718/31/116	1037/35/123	971/35/132	1058/30/127
HG8R	207/15/68	456/29/107	1452/38/137	672/36/137	743/37/141	853/38/139

Low Power

P44W	117/11/30	383/14/71	868/30/110	1297/34/119	1359/35/118	1605/32/117
UN4Q	159/9/42	668/20/85	895/30/102	610/27/93	855/30/108	1367/26/92
EA1X	133/9/53	573/17/88	895/33/110	835/29/106	1296/36/118	853/34/107
9Z4BM	5/2/5	78/10/28	730/21/85	753/30/95	1055/29/102	948/29/92
4U1A	250/7/45	825/17/75	714/28/105	865/32/120	707/35/120	648/34/110
WP3A	5/3/5	335/14/56	433/20/76	709/29/90	1084/28/106	839/24/84
OL5Y	210/6/50	562/13/78	671/31/112	385/30/110	600/34/116	546/36/100
K0EJ	40/10/21	138/17/67	474/29/100	328/30/97	612/31/115	620/31/113
DL3YM	154/6/51	409/14/71	528/29/103	393/31/108	526/37/124	440/35/105
YL73R	362/10/57	612/19/82	399/21/87	491/30/106	467/37/122	364/33/114

QRP

DM2M	173/8/50	360/13/68	284/24/90	306/29/101	366/34/110	277/33/88
S53K	86/7/44	414/15/65	408/25/74	152/14/48	366/24/85	232/22/80
S51A	102/6/41	384/9/59	358/22/86	242/23/78	233/25/79	142/22/44
DR3W	140/6/43	241/10/57	242/17/77	209/26/81	193/27/77	213/27/57
W1FJ	17/3/2	43/10/25	151/14/69	274/20/80	222/20/82	252/20/81
MW9W	62/3/23	253/7/48	167/8/46	281/19/66	259/21/61	180/21/38
OL4W	120/4/32	747/10/65	259/11/53	318/20/76	118/17/44	54/15/21
LY5I	123/6/34	342/9/56	213/13/66	203/13/63	212/18/73	121/19/37
HG5O	0/0/0	326/9/55	202/19/67	224/20/68	144/20/42	104/18/27
WQ6X	5/4/3	23/9/13	222/21/35	57/16/26	196/27/50	206/24/46

WORLD MULTI-OPERATOR SINGLE-TRANSMITTER

High Power

PJ4A	74/12/40	611/19/87	1646/39/128	1976/38/136	1798/38/140	1928/34/125
ED8X	146/16/68	737/24/104	1463/39/134	1664/37/140	1474/38/143	1579/34/133
LZ5R	237/19/81	1251/31/115	2076/39/143	2227/40/153	1754/38/150	1580/38/149
OM7M	388/22/86	1097/33/120	1843/39/153	1681/39/151	1468/39/154	1124/38/150
E7DX	284/19/78	834/32/116	1954/39/145	1901/40/153	1414/36/141	1554/37/146
IO4M	75/15/72	802/30/112	1967/39/142	1490/39/149	1650/38/149	901/38/138
NP3Y	116/10/33	424/20/82	1557/36/117	1318/37/132	1752/35/133	1853/33/125
A44A	153/14/58	757/22/81	1513/33/124	939/38/131	884/36/127	1749/32/122
EA5RS	76/17/74	521/31/115	1950/39/137	1278/40/149	1397/39/147	1289/39/150
9A7A	144/17/72	778/30/113	1548/40/146	1430/39/151	1365/37/142	1105/37/144

Low Power

P40L	52/10/21	593/17/75	1686/35/121	1437/37/127	1998/36/133	1770/32/123
P3CR	86/12/59	535/20/84	1403/36/125	1098/38/130	1079/37/133	850/35/118
UW5Y	253/15/68	1004/28/101	1461/39/132	1013/38/132	1013/37/138	785/37/140
PJ5C	5/4/5	228/12/60	1573/28/102	1412/31/108	1350/31/104	1264/24/89
IO6T	160/10/56	719/23/88	984/38/131	822/36/142	843/36/128	913/38/137
E7CW	89/11/62	560/22/88	1049/36/121	973/33/131	742/35/127	765/37/130
IO3F	223/10/59	773/21/91	956/36/127	983/32/125	679/37/126	653/34/115
JT5DX	200/12/47	383/19/70	704/29/98	990/34/118	765/29/101	702/24/91
ZB2BU	22/3/12	456/10/55	656/16/70	1267/27/94	1100/27/97	1336/23/82
YU5R	193/9/52	754/18/82	430/28/104	805/35/123	621/34/114	457/36/122

WORLD MULTI-OPERATOR TWO-TRANSMITTER

CR3A	277/18/77	1479/31/111	3424/39/140	2512/40/151	3865/40/160	3617/38/153
PJ4K	136/16/56	1264/26/104	3285/40/146	3149/40/144	3598/40/147	3332/37/139
ZF1A	185/15/44	938/18/83	2716/35/128	2040/36/131	3133/37/138	2624/31/125
W3LPL	68/15/57	1011/28/114	2066/39/141	1346/39/143	1891/39/147	1506/35/141
3B8M	62/10/37	259/25/73	1364/38/123	1539/40/146	2343/36/143	2679/35/132
IO4X	162/15/73	1377/30/108	2331/40/147	1685/39/147	2097/38/148	1776/38/142
9A1P	264/15/71	1334/27/108	2280/38/141	1621/39/145	2155/38/150	1647/38/142
ED1R	309/15/71	1328/25/107	2426/39/137	1457/38/144	2005/40/150	1769/38/144
IP2A	258/17/66	1358/31/110	1949/38/137	1789/39/145	1983/37/144	1397/38/144
CR2M	82/8/36	935/22/90	2005/36/123	1881/36/125	1857/36/138	2466/35/141

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

CN3A	766/18/81	2235/33/120	3763/39/149	3528/39/150	3530/40/157	3651/38/151
CR3W	710/15/71	1837/25/106	3173/38/142	3608/40/155	2904/40/150	2707/37/142
TK0C	1497/23/93	2731/34/127	4039/40/139	3613/38/149	3322/39/149	3119/39/148
ZF5T	767/18/74	1836/28/104	2929/37/133	2978/37/126	3592/38/142	2803/34/125
PJ2T	556/17/65	1245/24/89	2618/34/122	2894/37/130	3064/36/122	2834/37/123
KC1XX	446/15/72	1172/32/115	2186/40/147	2072/40/154	2243/40/147	2252/34/144
K3LR	206/19/69	1035/29/111	2357/40/148	1953/40/151	2152/40/155	1730/36/145
ES9C	1191/23/95	2030/32/121	3451/40/154	3098/39/149	2704/39/150	1716/39/147
9A1A	1311/26/99	2007/33/118	2927/38/142	2671/40/155	1989/37/152	1649/38/144
M6T	939/16/74	1902/31/117	3101/40/146	2815/39/148	2512/39/157	1833/38/147

USA SINGLE OPERATOR ALL BAND

High Power

ND3T	152/12/57	604/20/81	1612/34/117	1082/34/114	1511/34/115	1204/30/114
W1KM	66/11/34	705/19/78	973/25/92	766/29/94	1004/27/95	921/23/87
K5GN	58/11/29	237/19/59	1043/33/96	686/32/104	1313/36/112	1057/30/103
AA4NC	46/11/22	306/16/66	803/25/96	984/33/109	1156/29/109	999/28/98
NN7CW	22/8/12	406/16/68	745/25/88	748/32/99	827/25/91	1137/26/88
N9RV	30/10/10	225/22/43	705/32/97	697/34/96	978/32/92	585/29/74
NA8V	72/12/35	325/18/66	712/30/97	589/29/89	627/26/97	491/27/87
K1LT	58/13/32	209/17/56	394/29/89	293/32/89	570/32/101	668/29/93
W3RJ	0/0/0	125/14/52	857/21/82	492/22/75	692/22/76	646/20/74
K6XX	14/7/9	156/17/33	621/29/83	275/31/83	643/30/88	659/28/79

Low Power

WW4XX	10/5/7	100/14/53	257/24/86	294/30/89	603/30/106	656/29/100
K1BX	11/5/5	41/9/29	161/16/62	368/24/87	502/23/83	797/23/87
N8II	7/5/5	55/9/27	123/17/59	369/29/90	449/26/87	643/27/88
WA7NB	15/7/6	55/12/13	45/18/33	154/29/71	448/25/74	486/29/77
N1DC	9/3/3	42/7/25	100/12/46	220/20/70	299/20/76	408/22/76
W1EQ	10/4/6	39/8/24	58/10/40	351/17/69	331/16/63	333/19/67
K4EJ	0/0/0	7/4/4	96/13/45	204/26/79	307/23/85	145/23/66
N4TB	8/4/7	41/12/26	99/18/55	187/21/66	168/23/71	195/21/73
N6RA	0/0/0	30/12/18	93/19/31	159/23/61	246/25/60	266/23/45
NK4O	2/1/1	38/8/26	210/16/70	99/23/55	163/18/61	197/25/65

QRP

KR2Q	9/4/4	53/12/27	190/14/76	292/23/86	394/20/85	293/23/79
W6JTI	3/2/2	16/8/8	89/19/35	105/21/50	143/21/49	153/23/47
ND0C	2/2/2	18/8/8	36/11/23	75/17/46	116/20/52	187/23/66
N6MA	1/1/1	7/3/3	53/7/27	49/15/30	113/17/54	116/18/49
NQ2W	0/0/0	24/9/15	35/11/25	73/14/36	77/15/42	82/15/41
W6QU	0/0/0	11/6/6	30/8/10	43/18/26	102/21/42	104/20/40
K7FR	0/0/0	0/0/0	6/4/5	47/15/29	104/25/40	58/16/27
NU4B	0/0/0	3/2/2	23/9/19	29/10/24	56/12/40	57/13/38
KC1UBH	0/0/0	2/2/2	26/7/22	24/6/16	54/11/38	32/8/20
N7JI	2/1/2	7/4/3	17/7/6	30/12/16	59/16/18	46/17/19

USA SINGLE OPERATOR ASSISTED ALL BAND

High Power

K5ZD	47/13/30	197/19/77	1121/37/125	840/39/139	973/38/139	850/32/122
AA1K	52/12/36	198/19/83	1070/34/114	813/38/137	568/36/136	1027/32/133
N3RS	50/10/28	275/16/79	738/33/123	647/38/132	672/36/127	926/32/124
W8FJ	68/11/40	347/20/91	715/35/123	799/37/130	667/36/132	543/31/124
N2NL	39/12/27	156/22/84	499/37/119	639/39/137	876/38/138	948/33/127
AB3CX	49/10/31	246/16/77	724/33/111	491/34/107	653/35/126	744/30/122
N9NC	47/9/25	299/16/81	351/28/106	693/34/123	731/30/114	930/29/116
WX0B	21/10/16	82/19/56	952/36/123	335/36/109	1044/36/131	618/33/115
NN1SS	27/8/18	166/16/73	724/29/111	531/35/120	746/29/119	674/27/106
W4NF	58/11/40	210/18/82	602/35/117	613/35/121	426/35/127	594/33/126

Low Power

K0EJ	40/10/21	138/17/67	474/29/100	328/30/97	612/31/115	620/31/113
K9OM	6/3/4	105/11/65	455/29/106	306/30/103	291/27/109	541/28/116
KG9X	19/6/12	58/11/32	429/31/105	376/35/107	463/34/116	271/30/108
AD5A	9/6/5	63/14/32	632/33/109	130/27/81	549/29/98	466/27/81
WJ1U	23/7/11	170/13/59	258/23/88	328/23/90	353/27/95	353/23/90
W3KB	5/2/1	63/12/40	239/22/84	262/27/100	296/28/95	440/27/105
WE9R	5/3/3	66/15/39	238/26/87	220/32/94	345/32/116	287/26/103
WA1S	12/8/8	42/8/37	74/15/56	315/31/99	394/27/107	390/27/99
N7IR	14/8/7	60/17/33	255/29/96	164/28/70	322/31/98	333/30/90
NS3T	23/6/10	111/13/53	204/20/79	243/23/86	307/25/97	285/25/98

QRP

W1FJ	17/3/2	43/10/25	151/14/69	274/20/80	222/20/82	252/20/81
WQ6X	5/4/3	23/9/13	222/21/35	57/16/26	196/27/50	206/24/46
K7SS	2/2/2	6/2/3	29/9/15	106/24/55	172/25/62	166/22/49
N5UE	0/0/0	14/6/12	0/0/0	56/21/41	106/15/48	118/19/51
K8ZT	2/2/1	4/4/3	26/9/20	24/10/21	49/16/41	59/18/51
KD2EFR	4/3/3	12/7/10	3/2/2	43/9/21	28/10/20	50/12/36
K2AL	0/0/0	1/1/1	6/4/6	16/9/16	32/11/32	20/8/20
NI8W	0/0/0	0/0/0	4/4/4	22/9/14	2/2/2	19/9/14
N9EEE	0/0/0	0/0/0	1/1/1	5/4/2	13/7/11	14/8/13

USA MULTI-OPERATOR SINGLE-TRANSMITTER#

High Power

W2FU	52/13/50	465/24/98	1134/38/131	738/39/142	991/39/145	1145/32/133
N4RV	58/13/49	322/23/94	623/35/124	771/39/144	991/39/145	956/34/139
K9RS	64/12/48	385/21/91	695/33/123	785/37/134	645/37/135	963/31/124
N2NT	83/13/47	527/19/91	643/34/118	661/37/133	697/35/137	813/30/124
N1DE	52/10/35	367/17/84	802/32/117	651/30/117	730/32/127	702/28/115
K2LE	36/12/30	380/16/80	711/35/127	721/36/132	476/36/130	788/30/124
W4RM	28/12/22	319/20/87	818/32/123	507/37/125	624/33/128	725/31/118
K8AZ	44/12/36	263/18/86	608/35/122	235/37/126	328/36/129	831/32/130
NN4N	0/0/0	113/15/64	1089/32/113	457/32/106	685/33/116	555/29/109
KQ3F	17/7/13	121/15/68	296/29/103	512/32/114	510/31/112	789/27/111

Low Power

AG4TT	9/5/5	157/15/67	452/25/96	375/29/104	610/31/117	580/28/113
KT4XA	36/8/10	65/13/44	191/22/86	160/25/81	256/24/100	376/30/98
W4TG	3/2/2	78/9/41	237/20/76	258/22/79	233/22/80	176/23/73
W1FM	10/4/3	86/12/50	163/16/71	170/21/83	238/25/101	135/25/72
W2MSA	0/0/0	9/5/9	47/13/34	66/15/47	51/14/37	77/17/44

USA MULTI-OPERATOR TWO-TRANSMITTER#

W3LPL	68/15/57	1011/28/114	2066/39/141	1346/39/143	1891/39/147	1506/35/141
N4WW	74/13/50	551/25/100	1430/38/136	946/40/145	1589/39/146	1141/34/138
K9CT	84/14/49	443/27/99	1356/39/133	939/39/137	1383/37/142	1193/35/133
K3WW	49/11/32	446/20/90	1139/37/129	950/37/131	1481/37/132	1341/31/124
N2AA	69/12/40	493/21/94	1161/35/122	979/37/132	1286/36/132	1083/30/126
K1RX	73/8/29	488/20/83	836/31/105	1074/34/130	1674/36/139	1049/33/115
K2AX	77/12/37	281/21/85	840/32/120	903/38/134	1111/35/136	1062/32/126
K8LX	26/10/18	302/19/82	841/37/120	583/36/127	1043/36/129	783/33/130
WA3C	17/9/15	287/25/98	712/38/127	672/39/139	808/39/144	628/33/132
W9VW	25/8/13	291/17/73	934/34/118	683/34/107	920/34/126	688/29/104

USA MULTI-OPERATOR MULTI-TRANSMITTER#

KC1XX	446/15/72	1172/32/115	2186/40/147	2072/40/154	2243/40/147	2252/34/144
K3LR	206/19/69	1035/29/111	2357/40/148	1953/40/151	2152/40/155	1730/36/145
NR4M	192/13/47	818/27/106	1821/40/139	1714/38/139	1716/38/133	1160/31/122
K1TTT	146/14/57	916/28/107	1361/34/126	1545/39/142	1517/31/131	1192/33/133
KB4DX	36/11/19	416/20/88	1497/38/130	796/36/120	985/34/128	908/31/122
N6RO	119/12/21	488/30/68	921/35/111	885/39/129	1260/34/123	1043/36/120
K0RF	80/11/22	300/26/64	980/38/125	1014/40/137	1368/37/128	616/30/103
N3AD	41/11/22	279/17/83	779/27/97	663/35/126	776/30/117	846/31/125
K1KI	80/9/36	155/17/71	657/32/119	547/34/115	468/28/100	1036/32/122
K3PH	42/9/18	139/14/61	395/26/104	398/32/115	447/27/108	376/27/102

EUROPE SINGLE OPERATOR ALL BAND#

High Power

CR6K	380/13/59	1187/20/76	2072/32/93	1981/34/104	2678/35/112	1979/33/103
EF6T	383/11/51	1448/23/85	2113/30/101	1659/32/88	2105/33/106	1636/31/88
LX7I	318/9/45	1309/19/80	1923/29/103	1623/31/96	1851/32/104	1123/32/94
4O3A	303/11/52	1217/20/79	1792/32/99	1494/31/94	1871/33/107	1314/35/94
9A4M	290/12/56	788/19/71	1833/29/93	1413/30/94	1880/33/92	1032/32/88
PC0A	264/10/44	743/13/73	703/30/99	564/27/81	637/29/97	544/33/97
OM7K	159/8/39	469/16/63	919/29/93	499/24/77	618/28/92	460/30/86
G4FNL	204/8/43	644/12/64	825/18/67	715/25/81	860/27/83	591/27/72
OZ5E	223/8/47	619/14/60	500/25/84	566/26/80	567/27/81	693/26/83
DL2CC	50/9/36	77/13/47	569/21/75	700/26/74	601/30/83	535/24/71

Low Power

LZ6E	38/8/37	105/10/55	246/21/78	371/28/78	493/34/87	396/31/92
LY5W	195/8/44	284/11/57	461/28/94	202/24/79	282/33/99	316/34/104
EF3T	0/0/0	298/8/52	470/20/74	608/16/70	582/27/97	316/25/68
EU2F	88/5/29	328/16/56	467/26/87	402/21/65	399/23/71	393/30/81
MI5I	112/5/32	299/9/49	323/12/49	543/14/51	623/20/57	747/19/59
EA4KD	26/3/15	156/9/42	324/18/66	371/21/68	460/19/75	457/24/73
SO5CW	194/6/40	445/11/58	373/15/66	371/22/76	273/25/78	265/28/76
E7AA	82/6/31	374/9/48	1043/17/74	657/25/71	259/19/56	226/24/56
RG5A	55/6/32	168/14/60	286/24/91	221/24/92	290/32/111	262/32/98
HA5PP	88/8/35	254/14/62	190/16/71	139/21/70	279/29/91	320/33/86

QRP

IZ3NVR	37/4/21	260/12/67	274/27/95	228/21/77	307/31/94	256/29/81
DK7HA	126/6/37	311/9/51	221/9/52	168/16/54	280/22/60	185/23/46
DL1MAJ	29/5/19	169/6/49	187/16/59	168/17/54	128/24/47	169/23/52
HA5BA	12/3/10	254/8/50	244/15/59	249/13/58	165/13/37	152/20/37
HG6C	50/4/25	188/9/48	296/17/74	215/16/61	104/16/38	120/18/31
LY5G	111/5/27	273/7/44	244/11/53	238/14/56	181/18/54	108/19/32
DL1JDQ	23/3/15	207/9/45	219/16/57	129/15/53	120/16/38	93/19/25
OL3M	75/6/26	324/7/41	166/10/48	119/11/37	165/15/38	138/18/29
DL3NAA	5/2/4	113/5/36	248/14/58	184/12/52	125/12/36	89/13/25
G3YMC	10/2/9	75/4/27	181/9/46	177/10/48	174/14/44	120/14/30

EUROPE SINGLE OPERATOR ASSISTED ALL BAND

High Power

II2Q	130/13/65	754/23/101	1280/37/131	986/37/136	1323/37/141	865/38/138
EA2W	71/13/61	806/24/98	1181/37/128	902/34/128	1167/37/133	1245/37/140
ED7W	110/10/51	466/23/95	1263/36/121	966/33/126	1327/37/133	1233/35/130
HG8R	207/15/68	456/29/107	1452/38/137	672/36/137	743/37/141	853/38/139
OQ5M	263/12/59	833/24/95	950/32/114	870/33/113	985/34/118	851/34/111
S59L	74/10/52	308/21/84	1196/34/121	778/34/125	601/35/122	491/36/118
OT2A	222/11/55	807/24/99	919/35/123	847/36/108	669/34/132	468/34/102
HA8A	130/14/58	460/23/91	819/37/131	870/38/135	705/36/129	421/35/126
DK9PY	176/8/57	233/22/88	1123/35/122	766/35/117	465/35/132	673/31/106
RG2A	204/14/66	319/29/98	879/38/138	638/35/123	902/37/141	404/36/138

Low Power

EA1X	133/9/53	573/17/88	895/33/110	835/29/106	1296/36/118	853/34/107
4U1A	250/7/45	825/17/75	714/28/105	865/32/120	707/35/120	648/34/110
OL5Y	210/6/50	562/13/78	671/31/112	385/30/110	600/34/116	546/36/100
DL3YM	154/6/51	409/14/71	528/29/103	393/31/108	526/37/124	440/35/105
YL73R	362/10/57	612/19/82	399/21/87	491/30/106	467/37/122	364/33/114
SN7O	420/11/57	790/22/77	437/30/100	404/29/106	317/36/114	293/36/101
DK3WW	228/11/58	393/23/94	348/34/115	210/30/110	309/31/106	385/32/113
HB0DX	425/7/53	825/17/66	839/22/84	607/20/82	362/23/77	308/20/59
HA7UI	155/7/46	584/17/71	709/27/100	304/25/99	287/27/87	362/29/82
SP9XCN	115/6/35	669/14/69	253/19/79	508/28/107	374/34/115	215/31/103

QRP

DM2M	173/8/50	360/13/68	284/24/90	306/29/101	366/34/110	277/33/88
S53K	86/7/44	414/15/65	408/25/74	152/14/48	366/24/85	232/22/80
S51A	102/6/41	384/9/59	358/22/86	242/23/78	233/25/79	142/22/44
DR3W	140/6/43	241/10/57	242/17/77	209/26/81	193/27/77	213/27/57
MW9W	62/3/23	253/7/48	167/8/46	281/19/66	259/21/61	180/21/38
OL4W	120/4/32	747/10/65	259/11/53	318/20/76	118/17/44	54/15/21
LY5I	123/6/34	342/9/56	213/13/66	203/13/63	212/18/73	121/19/37
HG5O	0/0/0	326/9/55	202/19/67	224/20/68	144/20/42	104/18/27
HB9HWI	9/3/9	29/5/28	121/13/66	116/19/70	96/19/57	155/21/43
UX9Q	0/0/0	0/0/0	191/15/63	60/14/38	223/23/81	123/27/52

EUROPE MULTI-OPERATOR SINGLE-TRANSMITTER

High Power

LZ5R	237/19/81	1251/31/115	2076/39/143	2227/40/153	1754/38/150	1580/38/149
OM7M	388/22/86	1097/33/120	1843/39/153	1681/39/151	1468/39/154	1124/38/150
E7DX	284/19/78	834/32/116	1954/39/145	1901/40/153	1414/36/141	1554/37/146
IO4M	75/15/72	802/30/112	1967/39/142	1490/39/149	1650/38/149	901/38/138
EA5RS	76/17/74	521/31/115	1950/39/137	1278/40/149	1397/39/147	1289/39/150
9A7A	144/17/72	778/30/113	1548/40/146	1430/39/151	1365/37/142	1105/37/144
II9P	101/16/70	714/31/109	1921/39/141	857/39/147	1516/38/147	1203/38/144
TM2Y	208/15/72	1017/27/104	1297/40/143	1253/39/149	1201/39/149	1399/37/134
HG6N	207/15/73	1109/29/112	1500/38/139	1624/39/148	1260/38/142	818/38/142
RL3A	242/20/84	1024/34/117	1690/40/145	1217/40/150	1461/38/149	1079/38/146

Low Power

UW5Y	253/15/68	1004/28/101	1461/39/132	1013/38/132	1013/37/138	785/37/140
IO6T	160/10/56	719/23/88	984/38/131	822/36/142	843/36/128	913/38/137
E7CW	89/11/62	560/22/88	1049/36/121	973/33/131	742/35/127	765/37/130
IO3F	223/10/59	773/21/91	956/36/127	983/32/125	679/37/126	653/34/115
ZB2BU	22/3/12	456/10/55	656/16/70	1267/27/94	1100/27/97	1336/23/82
YU5R	193/9/52	754/18/82	430/28/104	805/35/123	621/34/114	457/36/122
9A2L	133/8/51	387/16/76	623/37/120	498/30/113	525/34/106	410/34/103
IP8R	134/9/48	475/18/73	1084/28/103	572/27/84	640/34/98	231/33/99
PA6Z	222/8/52	414/17/83	316/31/100	371/32/113	576/35/115	307/36/107
HG1R	237/7/48	521/14/75	486/26/93	592/27/98	355/29/92	129/24/84

EUROPE MULTI-OPERATOR TWO-TRANSMITTER

IO4X	162/15/73	1377/30/108	2331/40/147	1685/39/147	2097/38/148	1776/38/142
9A1P	264/15/71	1334/27/108	2280/38/141	1621/39/145	2155/38/150	1647/38/142
ED1R	309/15/71	1328/25/107	2426/39/137	1457/38/144	2005/40/150	1769/38/144
IP2A	258/17/66	1358/31/110	1949/38/137	1789/39/145	1983/37/144	1397/38/144
CR2M	82/8/36	935/22/90	2005/36/123	1881/36/125	1857/36/138	2466/35/141
RT6A	295/14/69	1234/30/115	2310/37/144	1371/40/142	1809/38/145	1681/38/143
UA4M	552/18/76	1087/29/106	1995/39/142	1542/40/132	2022/38/152	1453/37/146
OL3Z	583/15/71	1477/27/109	1421/39/137	1590/39/140	1168/37/130	1042/37/135
HG7T	433/17/76	1189/27/107	2192/37/143	1305/39/138	1398/37/135	793/38/134
DP7D	310/10/62	1152/23/101	1218/39/136	1272/36/144	1413/36/146	1086/36/143

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

TK0C	1497/23/93	2731/34/127	4039/40/139	3613/38/149	3322/39/149	3119/39/148
ES9C	1191/23/95	2030/32/121	3451/40/154	3098/39/149	2704/39/150	1716/39/147
9A1A	1311/26/99	2007/33/118	2927/38/142	2671/40/155	1989/37/152	1649/38/144
M6T	939/16/74	1902/31/117	3101/40/146	2815/39/148	2512/39/157	1833/38/147
UA7K	604/17/76	1493/32/111	3065/40/152	2538/39/150	2324/39/146	2248/39/146
LN8W	921/18/79	1594/28/110	2391/40/144	2059/39/145	1717/40/148	1340/34/130
DF0HQ	942/18/82	1631/32/120	2320/40/146	1925/39/136	1439/37/149	1137/38/143
OZ5W	841/14/72	1714/26/106	2264/38/138	1671/36/134	1550/38/139	874/35/131
DP9A	764/13/67	1435/25/103	2171/38/139	1512/38/138	1419/37/136	798/37/131
S53M	314/12/64	1256/30/112	1900/38/140	1122/37/135	1324/36/133	783/37/131