



# ARRL International DX Contest CW 2022 Full Results

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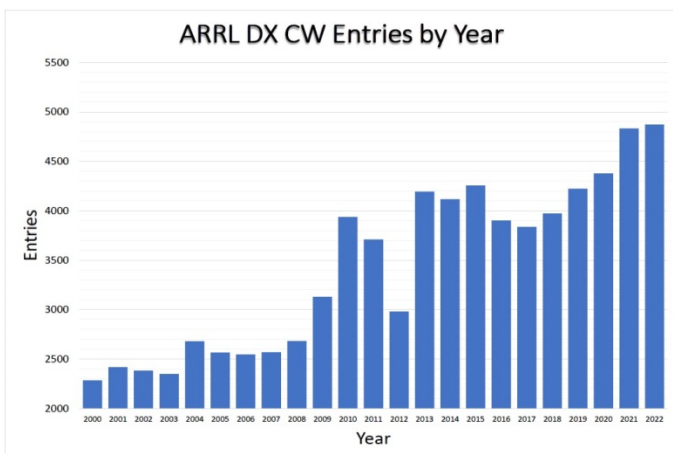
*It almost sounds like work, when one realizes this year's ARRL International DX CW Contest, held February 18-20, leaned heavily on new techniques familiar to the pandemic's professional work environment. Physically distanced more than most, ARRL DX CW entrants relied heavily on working from home, and working via remote. But most readers will agree international radiosport is somehow better than any day job!*



Noe, CO8NMN personifies nearly 5000 entrants in the 2022 ARRL International DX CW Contest. – Photo courtesy of CO8NMN

Last year, At the height of an unprecedented global health challenge, competition saw a record high 4,832 entries. Not to be outdone, the 2022 event edged past last year, for a new all-time high number of entries, with 4,872 different amateur radio stations on the air during the annual 48-hour long-distance QSO-fest!

Graph courtesy of Bob Wilson, N6TV



N2NT - This was one of the most fun ARRL DX contests I have ever experienced.

## U.K., Europe wanted to be busy: Eunice had other ideas

Operators in England had the dubious honor of making QSOs during the fastest wind gust ever record in their country, courtesy of extratropical cyclone Eunice. The storm also did huge amounts of damage to Western, Central and Northern Europe.

N2IC – (5 hours before the contest, watching the global weather) – Could be a lot fewer Gs on this weekend.

PAØHPG – Eunice crippled my hexbeam to barely useable.

MØBPQ – I lost my 40 meter antenna before the contest, dominated by the weather.

DK7HA - This year it was only a part-time endeavor due to the heavy hurricane hitting the north.

G8N – Missed the first nine hours of the contest when Eunice went through this part of the UK.

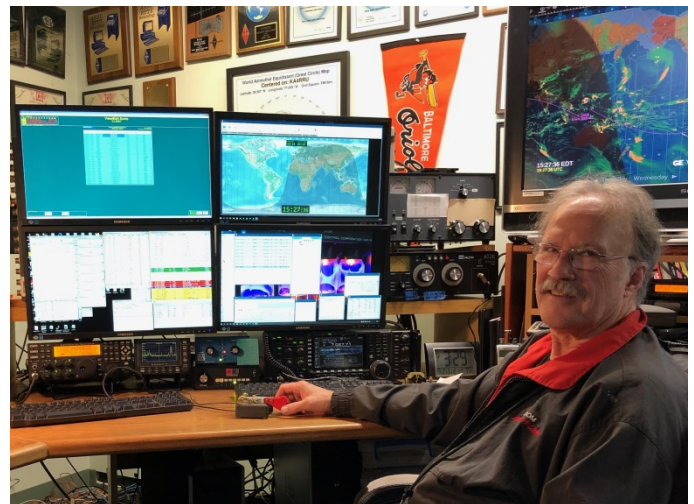
OP4K – Eunice broke the 40M reflector. There goes my chance to do SOAB.

PAØO – Heavy storms forced me to ground my antennas.

M7K – The towers were cranked down for most of the contest.

## New Records

On the USA/Canada side, Mike, KA4RRU, set a new record for Single Operator Unlimited QRP from his home station in Virginia. Mike aced the category, with more than five times the score of any other station. He worked nearly 900 QSOs running only 5 watts.



Challengers will be hard-pressed to best the new QRP Unlimited record set by Mike, KA4RRU. –Photo courtesy of KA4RRU

On the World side, multiple records fell. The new holder of the World Single Operator Low Power record is perennial favorite and CQ Contest Hall-of-Famer John, W2GD. John has been operating worldwide contests from Aruba since the 1980s, and now he appears to be collecting world records in multiple categories. John now holds the record for World

Single Operator Low Power, World Single Operator QRP, and World Single Operator High Power Unlimited.

To get the contest started off right, Friday morning John painted one of the towers. "The salt-laden air never takes a vacation," he adds, with that knowing look, where you're not sure if he loves it or hates it, but you're pretty sure he loves it.

"With the improved conditions, I made the decision to start on 20 meters for the first time in a long time. This, fortunately, proved successful." Over the course of the weekend, John managed 200+ QSOs for six hours, 150+ QSOs for another 12 hours, and 100+ QSOs for another 13, running only 100 watts. "After every QSY, the pileups began almost instantaneously."

In World Multi-Single High Power, the three operator crew at ZF1A on Grand Cayman surpassed the existing record, set by Costa Rican powerhouse TI5W in 2016. Team leader Dan, N6MJ, recalls, "We knew that the prediction for the weekend was for 10 meters not to be as good as it has been, so we had no thoughts about breaking the record." But the propagation gods had other plans. "After 5 hours, the rate was just really steady. We were averaging 280 QSOs per hour. I have done this contest as Multi Single from here five times since 2015. My best single hour ever was working 280 stations." This year, after those first five hours, Dan said he had a feeling something special was happening, "So we set our sights on the record."

A third world record fell when the crew at ZF5T, also on the Cayman Islands, narrowly held the lead over another well-seasoned Multi Operator Low Power team – the V3T bunch operating Field Day-style with a tribander and wires, holed up in a hotel on the mainland of Belize. Stan, K5GO, who masterminded the ZF5T operation, knew it would not be a walk in the park. "I knew it was going to be close and they would narrow the margin."



**Bill, W5SJ grabs a selfie as Stan, K5GO and Bob, K4UEE hammer away at the ZF5T radios. Not shown is Kevin, N5DX who operated via remote from home in the USA. –Photo courtesy of W5SJ**

The contests themselves are hard work, but super-rewarding. The days surrounding them make for indelible memories. There is something about getting breakfast with great friends you've talked to on the radio hundreds of times, but rarely or never see. The memories of sweat and stress in preparation melt away, pre-empted by happy thoughts of great food and great company. After the contest, Stan related, "We had a great time! Bill, W5SJ, and Bob K4UEE, came down on Sunday and we had a nice week before the contest. They quickly adapted to our regular routine of 9:30am donuts at the local restaurant and our traditional barbecue dinner on Friday evening just before the start of the contest. We enjoy the company of good friends."



**The V3T team, L-R K5PI, VE7KW, WC0W, WC0T, NM0C(SK), WW0G, AD0KH. - Photo courtesy of K5PI**

## Sad News

The V3T team finished only one per cent behind ZF5T after the dust settled. Veteran Belize contestman Robert, K5PI, who has made this trip 14 times, recounts, "10 meters was unBELIEZEable!" [They say that in Belize, take it from me - author.] "We went to 10 early Saturday morning, and didn't touch another band for more than six hours." Robert went on, "Madison, W5MJ, who was originally going to be with us, got a bug and had to pull out at the last minute. We couldn't have done it without great support, including some time at the paddles, by Leigh WC0T." Robert chides the bunch on Grand Cayman, "Congrats to the ZF5T team, but look out next year!"

The weekend will be remembered as the last contest for V3T crew member NM0C. "We were saddened by the untimely passing of our team member Nancie, NM0C," Robert told us later. Nancie's key peacefully went silent at home the Wednesday after the contest.

## Out with the Old - In with the New

This year, talk of records would not be complete without discussion of a major change to the competition. Starting with this event, the Low Power level was redefined from 150 watts to 100 watts. Going forward, remember that any new record set in any Low Power category has been accomplished with less power than was used to set the bar before now. For instance, John W2GD, set the new World Single Operator Low Power record running less power than Paul, K9PG, who set the record that stood for the previous 18 years from WP3R. Paul's got his work cut out for him if he wants to try to regain the top of that hill!

Also new for 2022, the Single Operator Single Band Categories were completely reworked, which in effect retires a number of old records in categories that no longer exist. Kudos is due to the operators who worked hard for many years to dominate these retired categories. It's notable that *none* of the new category records surpassed any of these now-retired records:

## USA / Canada Single Operator Single Band Retired Records

160 Meters VY2ZM (K1ZM, op) 2020 156,408  
80 Meters VY2LZ (K1LZ, op) 2004 356,034  
40 Meters W8JI (VE7ZO, op) 2010 804,996  
20 Meters KQ2M 2009 766,479  
15 Meters K3RV 2015 714,015



10 Meters W4ZV 2002 671,632

### World Single Operator Single Band Retired Records

160 Meters C6AKQ (N4BP, op) 2009 161,448  
80 Meters C6APG (K4PG, op) 2009 277,890  
40 Meters FY5KE 2018 394,002  
20 Meters FY5KE (F6FVY, op) 2017 442,680  
15 Meters FY5KE (F6FVY, op) 2012 478,077  
10 Meters CE1/K7CA 2012 435,060

The current breed of single band operators have some distance to make up on the old guard! You can see the winners of the 72 new categories listed later in the sections for each USA/Canada, and World.

## Categorically Speaking

Every year bears reminding how this long-lived competition is almost like two different contests in one. Sponsored by the ARRL, the national association for amateur radio in the USA, it is built for the United States and Canada to work the world, and the world to work the United States and Canada. This means the results for each of those two groups are not comparable, so we report them separately.

With almost 5000 entrants, they are divided into quite a number of groups. Individual operators (“Single Operator”) don’t have to compete against teams of operators (“Multi Operator”), for instance.

Teams of operators who have only one signal on the air at a time (Multi Operator Single Transmitter”) don’t compete against teams of operators putting out signals on two different bands at the same time (“Multi Operator Two Transmitter”). All those teams don’t compete against the very largest stations putting out more than two signals at the same time (“Multi Operator Multi Transmitter”)



Many operators working together keeps K3LR on the air in Multi Multi. – Photo courtesy of K3LR

Stations that run radios without an amplifier (“Low Power”) don’t compete against stations that do (“High Power”). There is also an interesting group of operators who like to test other people’s ability to copy signals. They can enter a lower-than-low power category where they only use 5 watts and see who can hear them (“QRP”).

Mentioned earlier, new this year are 72 fresh categories for stations that only operate on a single band. Up until 2022, it was only one category per band for each of the USA/Canada and World, for a total of 12 categories. Starting with this year, it is six categories per band, for each of the USA/Canada and World. Rather than discuss it, the winners are presented in big tables so the reader can sort it out.

## A Boy and His Radio

Yes, today it could be better to say “A *person* and *their* radio,” but to acknowledge an old turn of phrase seeing new life these days, there is

ongoing debate about how contesting is properly done. Probably the biggest lightning rod is whether competitors who don’t use the internet to help them find stations to work are on an equal footing with competitors who do. A long time ago we thought it would be wise to keep them separate. So we keep a boy and his radio separate from a boy and his radio and *the internet*. It’s confusing because we use the terms “Unassisted” and “Unlimited.” Yes, they both start with “U” but have another cup of coffee and you’ll figure it out.

## Regional Results

Since the early days of working distant stations, some operators think they are in *disadvantaged* locations, and say some other operators are in *advantaged* locations. Of course the other operators with higher scores say that is a bunch of bunk and the only reason they win is because they are better operators. Rather than try to answer this question, we include an informal table of “Regional Results” at the end of each section (USA/Canada and World), that show what happens when you break it up into regions, and allow the reader to draw their own conclusion.

And now, the moment you’ve been waiting for: The Overall Results. In some categories, there are tight races, in others there are winners who have set themselves apart by quite a distance from other competitors.

## Overall Results in the USA and Canada



Randy, K5ZD well and truly loves this ham radio stuff. He is shown here helping out at V47T. –Photo courtesy of N2NT

## USA/Canada High Power

This year the top Single Operator All Band High Power honor goes to Randy, K5ZD. No stranger to the top spot, Randy has prevailed again. “This was intended to be a casual, fun effort. What started out as a part-time effort with a goal of maybe 3000 QSOs ended up a pretty intense effort with over 4200! Much of it is thanks to the incredible activity from Europe.” Operating from his home in Massachusetts, Randy bested all challengers once more.

People who know Randy know that, ever since he had nothing left to prove, he has repeatedly said he will get on for fun and make a few contacts, the he goes on to clean their clock, earning him the nickname, “Mr. Casual.” “I had intended to go for a walk, but a snow squall came through. It looked nasty outside, so I got back on the radio,” Randy attempts to explain. “I was watching the scoreboard and keeping tabs on AA1K and K1ZZ. I seemed to be keeping up with them so that doubled my motivation. I had intended to stop but had such a pileup that I couldn’t

leave. I guess you could call contesting an addiction for me..." And the truth comes out.

To Randy: The first step is admitting you have a problem. We're here for you, man.

**K1ZZ - The station worked well. Wish I could say the same of the operator.**  
**AA1K – Fun watching the scoreboard. Congrats to K5ZD and K1ZZ.**

The Single Operator Unlimited High Power race brought an unexpected surprise into an otherwise predictable race between the internet-saturated two-radio two-band interleaved-CQ-wielding Pennsylvania shacks of Bud, AA3B, and Chas, K3WW. These two speedy guys seem to go after each other at every opportunity, and usually it's anybody's guess. This year Bud edged out Chas for the top spot, but somehow a station in Louisiana managed to wedge in between them. Victor, N8OO, managed to snag the #2 spot! Victor was unavailable for comment.

### Single Operator, High Power

K5ZD	5,165,670
K1ZZ	4,970,673
AA1K	4,697,352
KQ2M	4,553,256
VY2TT	4,134,240
K1DG	4,130,604
K5GN	4,107,756
N1UR	3,911,310
NN7CW	3,764,316
NR3X (N4YDU, op)	3,748,134

### Single Operator Unlimited, High Power

AA3B	6,510,768
N8OO	5,843,526
K3WW	5,719,140
VA2WA	5,095,800
W1UE	4,913,748
N3RS	4,824,780
VE3EJ	4,655,637
N3RD	4,599,396
AB3CX	4,401,801
W8FJ	4,102,764

### USA/Canada Low Power

Among the Low Power Single Operators, Lar, K7SV, won in the unassisted category, besting last year's winner Terry, N4TZ, in 2<sup>nd</sup> place. Lar comments, "It was great fun with quite good conditions. 10 meters wasn't stellar but produced some multipliers. I never expected 15 would be my best band – sure hope the deity responsible for the sun continues in the same direction!"

### Single Operator, Low Power

K7SV	1,876,770
N4TZ	1,521,783
W1WEF	1,270,512
K4OAQ	1,199,529
K1VUT	1,097,895
WJ9B	1,007,259
K1HT	616,704
AD8IG	583,692
K3JT	576,444
K5FUV	574,560

### Single Operator Unlimited, Low Power

W9SN	2,796,594
K1XM	2,755,125
N2RC	1,879,614
N4XL	1,526,328
W1QK	1,406,400
WO1N	1,405,530
K5EK	1,340,577
W3KB	1,216,122
N1EN	998,730
WE9R	992,868

In the assisted group, W9SN and K1XN ran a close race, getting even closer in the log checking process. In the end only 1.5% separated the two. Steve, W9SN, was obviously firing on all cylinders from his large contest station in Tennessee, while Paul, K1XM, probably lost the contest by having no antenna on 160 meters. He bemoans, "I had to run 30 watts into my 80 meter dipole." When you look at the numbers, Paul outperformed Steve, except for coming up short 35 countries on 160 meters. Paul was quick to add, "I'll make sure I have an antenna on 160 next year."

### USA/Canada QRP

The Briggs Brothers Dynasty was well represented, this year by brother George, K2DM, who won the Single Operator QRP trophy for the second year running. "I also came in second twice (in past years) – once to my older brother (Jeff, K1ZM) and once to my younger brother (Peter, K3ZM). I gave them each a run for their money." If you wonder what the station is like that wins the QRP unassisted category with almost 750 QSOs, George operated two radios: a Flex 6600M and an Elecraft K4. His antennas were all 60 feet up - wires for 80 and 160, and Yagis for 40 and up.

For Single Operator QRP Unlimited, it was Mike KA4RRU who soundly trounced all comers, finishing with more than five times the score of anyone else in the category. Mike was running 8 different antennas, including three tribanders, mostly fixed in various directions. Armed with internet spots, an Elecraft K3 and an Icom 7700, Mike worked nearly 900 contacts with only 5 watts. It's amazing to see how many contacts an op can make using QRP! Notable also was the large number of DX stations that worked Mike on six bands. He left no stone unturned!

### Single Operator, QRP

K2DM	477,183
W6JTI	261,126
NDØC	206,670
NA1ME	170,016
W1UU	158,916
W6QU (W8QZA, op)	150,084
K2YAZ	121,800
WB2CPU	117,576
AC2YD	56,118
NQ2W	51,264

### Single Operator Unlimited, QRP

KA4RRU	695,634
KR4AE	134,994
W4ER	53,460
K2AL	43,785
KQ2RP	43,659
KB9RPG	35,604
KC2WUF	35,502
KW2A	24,804
K2GMY	17,346
W6/SP9JZT	8,892

### USA/Canada Multi-Operator

Seasoned contesters recall all too well how the past few years made for an interesting scramble due to the global pandemic. Multi operator entries either enforced strict social distancing and mask practices, or they became remote-fests where operators all over the place learned how to put the station on the air *without actually being at the station*, connecting their shacks together over a mix of novel computer networks.

#### Multioperator, Single Transmitter, High Power

K1LZ	8,303,148
W2FU	5,589,432
K2QMF	5,145,048
K9RS	5,124,951
AA7A	3,588,624
W7RM	3,414,474
K3AJ	3,128,316
AA9A	2,580,897
NY6DX	2,499,042
KQ3F	1,996,722

In a way, it was a whole lot of new kinds of fun for a bunch of radio enthusiasts, and it met with mixed results and mixed reviews. Some operators loved it, others hated it. Some don't want to do it any other way ever again. Some are glad to see it behind them.

### NA2U - Operating remote has been a complete game-changer!

Multi Single comes in two flavors – High Power and Low Power. This year's winning High Power entry was from long-time master station-builder Krassy, K1LZ. He led a five-operator team to victory, including the ubiquitous Andy, N2NT, who took a few shifts in Maine via remote from home in New Jersey, but threw the rest of us off the scent claiming he would be at a wedding, "I'll be dancing while you guys are Fling. Don't laugh." Krassy has built a powerhouse to be reckoned with. "This is maybe the last big station." The Multi Single Low Power honors go to Frank, W4TG and his crew.

#### Multioperator, Single Transmitter, Low Power

W4TG	722,610
NJ1F	506,655
KA9VVQ	49,824
N1SOH	13,770
K3MTR	1,197

In Multi Two, W3LPL, whose teams operated Multi Multi during 41 consecutive ARRL DX CW contests in the past, opted to downsize to Multi Two during the pandemic. Frank's crew found they enjoyed it so much he says they may keep doing it like this. This year Frank's crew defended last year's Multi Two victory from last year's challenger – Florida-based N4WW.

#### Multioperator, Two Transmitter

W3LPL	10,389,744
N4WW	7,902,090
K9CT	7,250,607
VE3JM	6,078,726
K2AX	6,028,113
K1IR	5,841,234
W2CG	4,487,343
K5KG	4,353,993
K1DW	3,979,872
N7AT	3,622,224

#### Multioperator, Multitransmitter

K3LR	11,536,965
K1TTT	8,809,398
K1RX	8,651,772
KØRF	6,634,704
N6RO	3,967,470
N1RR	3,625,398
K1KP	1,784,244
KØOO	1,094,913
NE3F	936,000

The undisputed Multi Multi champions in the USA/Canada for 2022 are the deserving team powering K3LR to victory. Year after year top performance is really hard to accomplish. Tim, K3LR, credits his fine team. "The contestmen here at K3LR really pushed hard and made the



most of the radio conditions.” Recognizing the effort that goes into such a competitive category, Tim continued, “It was another good race for the top USA Multi Multi stations in the ARRL DX CW contest! Congratulations to all the CW Multi Multi teams!”

The race for second place was tight, with K1TTT edging K1RX by less than 1%, playing on the age-old balance of QSOs and multipliers. One had more QSOs, but the other worked more countries. That is a difference of less than one QSO per hour, and remember, these stations had a bunch of signals running *all at the same time*.

Notable is KØRF in Colorado, making a respectable showing for fourth place from the more western QTH in the state of Colorado. “Europe on all bands. That’s how it is supposed to be,” Chuck, KØRF told us.

Between these four stations, they kept 34 great radio operators pushing hard non-stop!

### USA/Canada Single Bands

2022 is the very first year for a big pile of new USA/VE Single Operator Single Band categories – unassisted for all three different power levels, then also Unlimited for each of the three different power levels. This means there were potentially 36 new records. You can review the top scores in each of these 36 categories in the associated table for USA/VE Single Operator Single Band Top Scores.

KM1R, winner of Single Operator 160 meters, Low Power reported, “I used my Heath DX-100B barefoot, and my Collins 51S1. It was not easy, but it was fun!” Mike counts as one of his ham radio mentors famed Topband pioneer Stew Perry, W1BB. Mike obviously comes by his love for 160 meters honestly. (See the extensive single-band Top10 and Regional Winners listings at the end of this article.)

## Overall Results Outside the US and Canada

### World High Power

This year, it was Yuri, VE3DZ, piloting FM5BH on Martinique under the contest call TO4A, landing at the top of World Single Operator High Power hopefuls. Always the hottest-of-the-hotly-contested categories, winning it is a feat of near super-human ability. “Thanks to everybody for the contacts, and special thanks to my hosts: Laurent FM5BH and his XYL Micheline. Without their care and help my effort wouldn’t be possible.” FM5BH is a skilled engineer who fits a lot of world-class radio station onto a small city lot.



**Yuri, VE3DZ says he goes to Martinique for the beaches and nature. He found time while he was there to win the world in the Single Operator High Power category. –Photo courtesy of VE3DZ**

“John, W2GD, convinced me a few hours before the contest to use the live scoreboard,” Yuri shared in post-contest recollection. “Then, watching the scoreboard, Filipe, CR6K, got me worried a bit. He is capable of winning this contest.”

Filipe, CR6K, did a fantastic job from a country where he was not the only station on the air by far, but bemoans 39 solid hours of interleaving CQs on two bands at the same time. His overall 2<sup>nd</sup> place score is a new record for all of Europe. “For us in Europe, ARRL is not a 48 hour contest, but more like 36 hours. If the Caribbean were limited to 36 hours, we would be much more competitive.” Filipe admits he has an incredible shot to the USA from his parents’ home near the west coast of Portugal.

Tibi, OM3RM, made a solid showing for third place from the Slovak Contest Group’s station on Madeira Island, CR3DX.

### Single Operator, High Power

TO4A (VE3DZ, op)	6,824,433
CR6K (CT1ILT, op)	5,982,972
CR3DX	5,520,018
EA6FO (EA3M, op)	4,483,188
KH7Q (N6TJ, op)	3,908,946
G6XX (G4FAL, op)	2,619,990
KL7SB	2,597,100
S53A	2,276,250
EA4KD	2,124,468
KH6TU (AD6E, op)	2,021,376

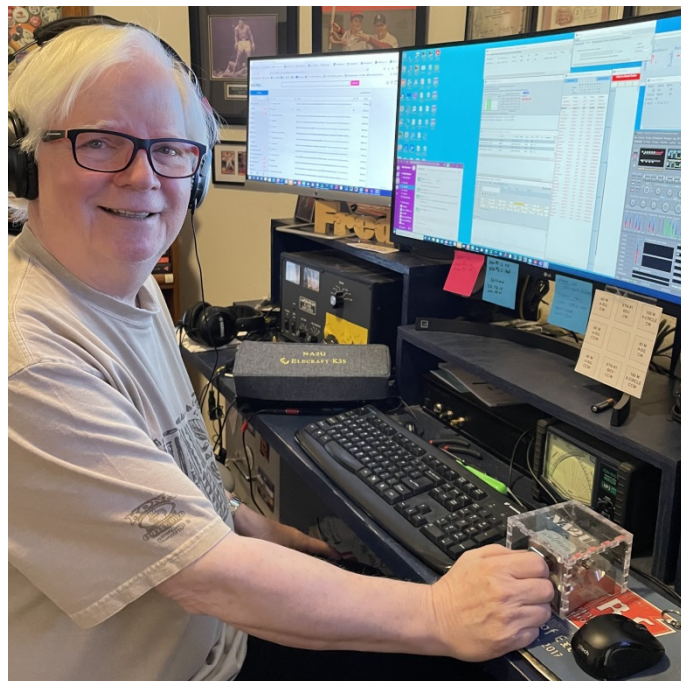
### Single Operator Unlimited, High Power

KH7M (NA2U, op)	3,564,480
IR2Q (IK2PFL, op)	3,538,356
OM2VL	2,838,366
OM3GI	2,760,480
HG3R	2,731,560
OM4MW	2,707,056
AH6KO	2,596,722
DD2D	2,409,876
9A5Y (9A3LG, op)	2,381,820
OX7AM (OZ7AM, op)	2,374,056

In the race for World Single Operator High Power Unlimited, following in the footsteps of KH6LC who last year won World Multi Multi from Oceania, top honors go to Fred, NA2U, running Max, KH6ZM's station under the contest call KH7M. Like John, W2GD, Fred spent the weekend at the Old School, running stations on only one radio, "Not two radios, not two bands at a time." Fred goes on enthusiastically, "I was stunned to find out I'd won. I've worked the last eight ARRL DX CWs from Hawaii." It's a feat unto itself - history has shown Oceania is not the optimal place to win this contest. Congratulations, Fred!

Landing the second spot, off the leader KH7M by less than 1 percent and completely on the other side of the world in Italy, is Luca, IK2PFL/IR2Q. In 2016 after a full life of contesting already, Luca sought quiet rural property to finally build his dream station. "ARRL DX is my favorite contest, the participation is unbelievable, and I really like to use two radios." He picked a location that favors the shot to the USA. Operators like Luca are what make this contest great.

Any discussion of Single Operator High Power would be amiss without mentioning Father Ed, OA4SS, and his vintage Drake L4B amplifier. "Thanks to W9VNE and a group of his friends, I have new finals in the L4B that put me back on the air with full power! The linear performed perfectly. For the first time in many years I was able to hold a run frequency on 80 meters. I have not been able to do that for quite some time." Of course, operators in the USA and Canada are grateful for all the new multipliers Father Ed was able to hand out!



**Fred, NA2U guided KH7M to the top spot for World Single Operator High Power Unlimited. –Photo courtesy of NA2U**

**Single Operator, Low Power**

P44W (W2GD, op)	5,964,336
VP5M (K4QPL, op)	3,857,238
KP4/KO1A (IZ3EYZ, op)	3,385,410
V47UM (W3UL, op)	2,642,088
HR9/AD8J	2,257,005
V4/KG9N	1,749,798
CO8NMN	1,406,565
EA8CN	1,067,430
TI2OY	1,007,445
CQ8EE (OZ2I, op)	793,866

**Single Operator Unlimited, Low Power**

V31QV (DJ2QV, op)	2,218,860
XE2B	1,669,545
LW5HR	1,166,592
XR3W (XQ4CW, op)	1,142,940
D44AO (DM4AO, op)	1,093,284
EC4TA	1,090,125
PY2FRQ	984,099
S52NR	925,605
TG9AOR	809,190
LQ3D	694,089

**World Low Power**

You can't read about any DX contest for the past 40+ years without reading about John, W2GD. It seems he's always in the news when it comes to who won. John appears to be on a mission to see how many records he can own at once. This year he adds World Single Operator Low Power to his stable of trophies, after decisively dominating the category.

For an excellent dose of can-do, and to feel good about being part of a world of communicators-without-borders, here is a great story. If you get on the air on CW these days you undoubtedly run into Noe, CO8NMN. He personifies the successful global movement to get CW back into the amateur radio limelight. Noe, who drives a Taxi in Cuba, managed seventh place in the Top-Ten for Single Operator Low Power, running an old Icom FT-747GX to all wire antennas no higher than 16 feet. "It was very fun for me to fight for 31 hours with my old but not tired equipment, and my super wire dipole antennas."

While we're enjoying a good dose of feel-good, the 10<sup>th</sup> place score is CQ8EE. I can see how an operator in Denmark might like to spend a week or two on the Azores. Hen, OZ2I, arranged to get on the air from the clubhouse of the Radio Club in Ponta Delgada. You might know those guys as CQ8M. It's a great example of the right way to get a country on the air in the name of international goodwill and cooperation.

**World Multi-Operator**

2022 generated new records in World Multi Single, for both High Power and Low Power. ZF1A (N6MJ and NN1C and W9KKN) won the High Power division and broke the record. As you will have read earlier, five hours at 280 QSOs per hour can do that. N6MJ relates, "I had a feeling something special was happening." V3T took a spirited shot at the Low Power title, but K5GO and his team at ZF5T eked out the win.

In Multi Two, the Europeans got their shot as CR3W won the category, with ED7W right behind them.

PJ2T really did run away with World Multi Multi as it made a triumphal return to a post-pandemic landscape, missing 10,000 contacts by only a

hair. "Signal Point is back in business," explained a happy Geoff, W0CG. "People are taking note and coming to operate."



The Caribbean Blowtorch is back in business as PJ2T brings home the gold in World Multi Multi. Thanking Dave, N7NR for his donation of an Elecraft K3, Here are L-R Gary, N7IR, Rudy, NF9V, Geoff, W0CG, Bill, W9VA, Christine, W0CFF, Andy, W9NJY, Kelly, N0VD and Dorothy (W0CG YL). -Photo courtesy of W0CG

### World Single Bands

Like in the Domestic results above, 2022 is the very first year for a big pile of new World Single Operator Single Band categories – unassisted for all three different power levels, then also unlimited for each of the three different power levels. This means there were potentially 36 new records ripe for the picking. You can review the top scores in each of these 36 categories in the associated table for World Single Operator Single Band Top Scores.

Hats off to Aki, JE1SPY, who placed third in 160 Meter Low Power, working 29 stations with an Elecraft K2 and a 3.6 meter vertical on his balcony in Tokyo. Aki says, "The stations in the USA were very weak." (See the extensive Single Band Top 10 and World Regional Winner listings at the end of this article.)

### World QRP

#### Single Operator, QRP

DK7HA	203,835
LZ7X	135,378
LY9A	131,664
DG3T (DF5RF, op)	122,130
EF3O (EA3O, op)	112,896
LZ2RS	98,172
DM2DZM	88,944
DL1JDQ	61,746
JH7UJU	59,286
CO6EC	53,244

#### Single Operator Unlimited, QRP

EA5ICL	96,354
IK4RQJ	51,300
HG6C (HA6IAM, op)	49,680
F5MMX	35,568
JK7DWD	35,100

EA1AER	33,306
IU3MIK	29,988
OK1DMP	24,840
EA2GM	21,204
VK3X (VK3GK, op)	17,325

Despite the big storm, Rudolf, DK7HA managed to get on and win the World Single Operator QRP category. "Thanks the all who dug my QRP signal out of the noise. I could only operate part-time due to the heavy hurricane hitting the north." In the Unlimited category, it was Dario, EA5ICL who successfully made it into the most logs.

### A New Normal

There is no end to the personal stories about what makes this contest great. Operators get drawn into a few QSOs and ... there goes the weekend! We hope you enjoyed the chance to look back on it, and even better, we hope you are inspired to see how many more contacts you can make next time, and with more places around the world. See you on the air! The next ARRL International DX Contest CW is Feb. 18-19, 2023.

... but conditions were so good I just couldn't stop! – K5ZD

### Top 10 Single Band W/VE

#### Single Operator, High Power, 160 Meters

VY2ZM (K1ZM, op)	81,840
W4ZV	28,200
N1PGA	24,192
N4XD	24,012
WF2W	23,700
AA1QD	1,539

#### Single Operator, Low Power, 160 Meters

KM1R	10,947
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#### Single Operator Unlimited, High Power, 160 Meters

WW2R (G4FRE, op)	28,860
K2KW	19,551
W9EWZ	12,255
AG4W	9,348
VA1RST	5,760
K1DJ	5,742
W7RH	1,890

#### Single Operator Unlimited, Low Power, 160 Meters

W4RN	864
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**Single Operator, High Power, 80 Meters**

W3BGN	111,510
K9ZO	89,088
KJ4QHL	55,260
W3NO	49,203
VY2OX	40,716
NIØG	14,760
K4ESE	11,766
W6RKC	3,540
K4RDU	2,070

**Single Operator, Low Power, 80 Meters**

K7LU	12,669
W4TJM	5,940
AC8CE	3,888
VE1AOE	2,415

**Single Operator Unlimited, High Power, 80 Meters**

N6AR	102,144
K5XS	9,720
NGØT	4,611
N6XI	4,455
VE3NRT	3,480
W5AJ	1,404

**Single Operator Unlimited, Low Power, 80 Meters**

W3LL	77,847
W1DYJ	10,680
K5CAO	90

**Single Operator, High Power, 40 Meters**

N2MF	402,978
VE7UF	131,400
K6AR	66,933
K9CJ	30,072
N7WA	25,974
W3AKD	6,018
VE4YH (VE4CDX, op)	3,564
VO1BQ	1,767
ACØE	756

**Single Operator, Low Power, 40 Meters**

W3EF	108,528
AI1TT (W1WBB, op)	52,923
W1NN	51,840
WA3FAE	43,920

K2UF	38,232
NY1E	29,880
W8UE	10,764
N9HDE	10,701
VE3LMS	6,210
VE7MR	3,975

**Single Operator, QRP, 40 Meters**

W1IG	10,500
WAØUSA	10,320
KI5O	648
KIØG	6

**Single Operator Unlimited, High Power, 40 Meters**

KG9X	348,861
K7NJ	246,528
WK1O	229,500
WA2MBP	107,352
W3US	93,234
NI7R	66,669
K3RV	66,456
K5KJ	42,174
N9LR	28,275
KK9V	9,954

**Single Operator Unlimited, Low Power, 40 Meters**

VE9ML	98,952
N3AC	86,031
WB8K	37,989
NS4T	37,752
N8KR	31,860
W3IDT	31,683
N2CJ	25,137
WC2L	17,289
K3ORC	6,624
VE3OU	1,764

**Single Operator Unlimited, QRP, 40 Meters**

W2NTN	29,415
KM4CH	5,247

**Single Operator, High Power, 20 Meters**

W7WA	345,618
WØEWD	324,024
N7TU	279,015
N5CR	256,434

KTØK	253,968
N5JJ	104,328
W4JKC	53,820
K7TAR	18,285
N4MM	15,732
K3HZP	2,997

**Single Operator, Low Power, 20 Meters**

N4IJ	147,651
W2TZ	83,106
WA7BNM	63,765
N4VI	50,895
K1EFI	33,174
AF8A	22,050
N3EA	17,748
WNØL	17,289
NW4V	11,748
W7KK	7,722

**Single Operator, QRP, 20 Meters**

NK3U	83,700
N8AP	31,320
KQ1P	8,925
K8ANM	27

**Single Operator Unlimited, High Power, 20 Meters**

K8CX	548,130
N9CO	401,778
WA2OAX	386,805
W9ILY	225,720
VE2FWW	203,112
VE6WQ	202,065
W2AW (N2GM, op)	196,152
N8DE	143,172
VA7OM	119,793
WA4JUK	113,286

**Single Operator Unlimited, Low Power, 20 Meters**

W3IQ	83,421
KB3AAY	64,791
K1IG	43,263
VE2HLS	38,415
KA7T	29,520
WX2N	28,814
VE2IEA	28,026
N2EIM	18,876

K2RK	17,748
K6TOR	2,430

**Single Operator Unlimited, QRP, 20 Meters**

K9AXT	7,182
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**Single Operator, High Power, 15 Meters**

KU2M	318,618
N4OX	294,900
W6YA	289,602
VE7JH (@VE7UF)	148,050
N6KN	127,575
AF2F	85,440
K5WE	63,135
W8WA	59,436
K3IU	56,940
KØ8Z	24,534

**Single Operator, Low Power, 15 Meters**

N8II	248,976
K1TR	213,444
WØUO	205,296
WB4TDH	159,192
K1EP	119,922
K4AMC	45,012
NU2A (N2GM, op)	39,600
N6RM	16,986
W3DF	14,847
NP4IW/W6	10,200

**Single Operator, QRP, 15 Meters**

KF4AV	7,659
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**Single Operator Unlimited, High Power, 15 Meters**

VE9AA	346,938
N7DD	308,382
K5QR	173,349
W1VEM	123,816
W7CXX	112,101
K6LL	103,332
KØZX	94,956
N2OO	76,626
KY7M	48,240
KD6X	48,165

**Single Operator Unlimited, Low Power, 15 Meters**

W9XT	192,900
WA1FCN	143,910
WB8ASI	31,290
WB9HFK	27,552
N3KCM	6,264
WV7S	5,325
VA2VT	3,861
NØGOS	2,214
KS4YX	1,404

**Single Operator Unlimited, QRP, 15 Meters**

VE9VIC	25,536
WC7S	6,264

**Single Operator, High Power, 10 Meters**

W4DD	23,814
K2CUB	14,637
W8TWA	14,208
K8GU	13,908
NØOK	9,312
KC4WQ	7,920
VE1JS	3,276
W9SE	2,961
K1EEE	1,620
N3RW	1,008

**Single Operator, Low Power, 10 Meters**

N1NK	11,466
N4NM	8,910
N4HA	8,832
K7BG	4,026
WB2AMU	3,975
N5BR	2,160
KN4JN	1,776
K7CS	1,710
AC7N	468
N8QE	45

**Single Operator, QRP, 10 Meters**

NØJK	702
N1MT	675
KØUU	528
N3CZ	60

**Single Operator Unlimited, High Power, 10 Meters**

W4SO	24,021
W5GAI	16,851
K5LG	14,835
W4PK	12,870
NRØT	9,765
K4WI	9,396
N1MM	8,040
K7TD	7,776
K6NV	7,575
N4BP	4,800

**Single Operator Unlimited, Low Power, 10 Meters**

VO1HP	12,960
N6MZ	5,184
AF5CC	2,376
VE7ZX	1,680
VE3VSM	1,530
W4HVVH	1,530
KØJP	1,305
KK4WX	1,260
K6ICS	966
K2NF	900

**Single Operator Unlimited, QRP, 10 Meters**

VA3AMX	858
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## Top 10 Single Band DX

### Single Operator, High Power, 160 Meters

LY4A	20,064
IK2CLB	13,860
SP9JZU	12,240
PI4DX (PD1DX, op)	7,905
SP2LNW	5,544
SP6AEG	3,843
IK1YDB	3,042
JAØQNJ	2,907
UYØZG	2,700
JA9FHB	288

### Single Operator, Low Power, 160 Meters

MØNDZ	6,120
OM2XA	1,776
JE1SPY	1,131
OU2V (OZ1FJB, op)	210

### Single Operator Unlimited, High Power, 160 Meters

OK1CF	31,941
OL1A	25,863
S56X	24,852
EI7KD	24,384
YL3FT	16,512
UT6UD	15,624
9A6D	4,392
OZØB (OZ1ISY, op)	2,862
LY2SA	1,470
J11AVY	1,386

### Single Operator Unlimited, Low Power, 160 Meters

V31MA	6,699
SP8K	3,588

### Single Operator, High Power, 80 Meters

KP4AA	197,532
TM5EE (F6AGM, op)	142,800
OM2XW	90,000
RW7K	69,090

GW4J (GWØETF, op)	56,373
OK5D (OK1DTP, op)	52,767
EI5KF	48,246
YT1A	40,320
DL2SAX	37,023
M3A	21,978

### Single Operator, Low Power, 80 Meters

CO2AN	123,120
CO2JD	122,136
E79D	46,698
S59MA	13,140
OE6JXA	7,725
F6EPO	2,736
JRØBQD	2,379
DL2TOS	1,944
OM6TX	684
HB9CPS	510

### Single Operator, QRP, 80 Meters

JH1APZ	252
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### Single Operator Unlimited, High Power, 80 Meters

XE2X	184,962
OMØM (OM3CGN, op)	113,985
HA1TJ	110,136
S51YI	83,808
HB9DHG	58,794
DF9LJ	50,895
G4AMT	37,410
OK8AU	37,206
OU2W	30,192
UT2II	27,216

### Single Operator Unlimited, Low Power, 80 Meters

IK1PMR	16,530
4Z4KX	6,480
JP3WEL (JG1EIQ, op)	1,122
JH2GZY	486
SQ1DNJ	480
SP2SA	396
JK1BQC	297
LY4BF	108

**Single Operator,  
High Power, 40 Meters**

V3X (K4XS, op)	368,100
NP2J (K8RF, op)	330,120
S52AW	261,000
HK3RD (HK3TU, op)	248,685
S57Z	234,171
VK1A (VK2IA, op)	202,860
S57Q	202,125
OM5WW	198,189
US1Q (UX6IZ, op)	185,658
TM6X (F5VHY, op)	176,400

**Single Operator,  
Low Power, 40 Meters**

FY5KE (F6FVY, op)	284,940
CO6RD	158,517
YU7WW	99,996
9Z4Y	69,615
E73AA	60,030
9A3SMS	54,567
OL5Y	51,987
NP3YL	31,725
VK2IG	28,290
EA5IUY	19,890

**Single Operator, QRP, 40 Meters**

CO8OH	33,528
OM2ZA	6,162
DK1VD	4,320
JR1ABS	2,208
JK7UST	1,920
YU7BPQ (YU7Q, op)	648
JH1EYM	288
YB3DXG	231
ZL3TE	45
YB2CTE	27

**Single Operator Unlimited,  
High Power, 40 Meters**

9A7V	233,820
SN3A (SQ2GXO, op)	182,310
EA1DAV	166,692
HA7RY	137,535
YU1AAA (YT2SS, op)	125,850
YL7X (YL2LY, op)	125,139
HB9TSW	98,175

LU7YS	89,676
IR8O (IZ8GCB, op)	85,065
YT4W (YU1DW, op)	72,474

**Single Operator Unlimited,  
Low Power, 40 Meters**

J42L (SV2DSJ, op)	112,572
HA8LCA	97,944
E7CW (E77FA, op)	96,390
OM3TZZ	41,409
SP9DLY	23,400
YU1RA	20,520
IC8FBU	15,642
DL2NBU	13,824
LZ7DX	13,125
I4IKW	11,100

**Single Operator Unlimited,  
QRP, 40 Meters**

SP6EYI	3,588
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**Single Operator,  
High Power, 20 Meters**

OH8L (OH8LQ, op)	259,659
9A8M (9A7DM, op)	195,231
IQ1DF (IK1HJS, op)	169,998
Z35T	165,822
OK1FMX	164,976
YL2SM	148,770
YL7A	111,663
UC5C	92,511
EA3C	88,935
KL2R (N1TX, op)	82,170

**Single Operator,  
Low Power, 20 Meters**

PY2NY	179,892
CO6WD	111,552
DL4YR	55,998
EU1DX	49,734
CT7AUP	49,686
OK1TD	46,176
DL9ZP	44,394
PY6TS	41,181
OP7B	35,424
YO8AXP	25,080

**Single Operator, QRP, 20 Meters**

US5VX	9,180
G3L (G3LHJ, op)	6,090
HAØGK	3,828
NH6O	1,260
LA3NGA	1,152
LY2LF	126
PP5NY	75
F5SSI	36
HB9/MWØSAW	12
I5CDF	6

**Single Operator Unlimited,  
High Power, 20 Meters**

SQ2A (SP2XF, op)	247,140
S5ØK	243,729
9A5X	238,140
HGØY (HA7GN, op)	221,040
YT3X	215,586
PA6X (PAØGJV, op)	210,060
HA1DAI	198,720
9A5D (9A4DU, op)	194,346
HG3N (HA3LN, op)	185,673
DK9PY	153,294

**Single Operator Unlimited,  
Low Power, 20 Meters**

LX7I (DF3VM, op)	137,460
OM7LW	96,786
UR5QU	51,840
DK9VS	48,828
UT5UT	42,534
S54X	36,000
DK2FG	33,048
UT2IV	32,895
UR6EA	24,318
PY2FSR	22,218

**Single Operator Unlimited,  
QRP, 20 Meters**

LZ6E (LZ1GU, op)	33,000
DJ3HW	11,760
G5Q (G3SVL, op)	6,408
LY2BGP	1,377
R7MU	1,260
ON9EEE	504

**Single Operator,  
High Power, 15 Meters**

PJ4NG	365,040
V31DJ (WØCP, op)	339,309
PX2A (PY2BK, op)	330,300
XQ1KZ	233,682
9A3TR	212,040
PY2TIM	199,386
KH6AQ	182,784
F5OGL	181,656
VK2IA	163,647
EC5K	154,698

**Single Operator,  
Low Power, 15 Meters**

TO1A (F5HRY, op)	289,260
CO8LY	218,772
J35X	205,800
XE1CT	202,134
HC1MD/2	201,318
IK6VXO	107,796
WP4WW (KP4JRS, op)	101,310
PY4DX	69,483
PT9DX	58,740
JF3BFS	53,136

**Single Operator, QRP, 15 Meters**

PU2WMW	11,934
S51Z	3,828
JA1KPF	1,452
UT4UBZ	1,296
JK1CNL	1,248
JR2EKD	594
J11AEP	504
SP2HMY	168
JH1OJV	9

**Single Operator Unlimited,  
High Power, 15 Meters**

LO5D (LU8EOT, op)	252,402
S5ØR	179,568
CX2BR	179,046
9A9R	158,688
DL6WT	157,818
YT9A	154,770
HG3DX (HA1DAE, op)	146,025



UZ5DX	132,660
SN5X (SP5GRM, op)	130,857
OH6QU	124,317

**Single Operator Unlimited, Low Power, 15 Meters**

IZ8BRI	85,176
PY1DX	79,464
CT7AGZ	78,408
JM1NKT	58,599
JA6WFM	45,594
IK6PTH	42,336
JA2KVB	36,990
SO6C (SP6CIK, op)	34,776
SV1BJW	34,584
YO2MNZ	28,224

**Single Operator Unlimited, QRP, 15 Meters**

JR1LLD	720
YO3LW	627
HL1VAU	480

**Single Operator, High Power, 10 Meters**

PY2PT	285,855
LW8DQ	273,060
PY2ZEA	258,120
HK1MW	233,640
CE2ML	218,880
D4L (IK2NCJ, op)	205,884
PP5RT	158,004
LW1D (LW1EUD, op)	128,688
LU8DZJ	80,808
VK1FOC (VK2IA, op)	42,624

**Single Operator, Low Power, 10 Meters**

PY2EX	170,097
CX2AQ	144,984
KH6CJJ	138,435
LU1ICX	87,318
LU4HK	84,906
PY1XW	64,152
PY1MK	42,600
PU2MST	32,400
YV1JGT	29,970
PY2XL	29,088

**Single Operator, QRP, 10 Meters**

3G3R (XQ3SK, op)	28,665
PY1CMT	1,620
CX7RL	1,197

**Single Operator Unlimited, High Power, 10 Meters**

CE3CT	267,660
LU3WC	212,400
PV2K (PY2KNK, op)	21,924
EA7Q	12,810
IT9SSI	5,934
MU5E (GU4YOX, op)	4,875
YT1X	975
JA7OWD	870

**Single Operator Unlimited, Low Power, 10 Meters**

PT4T (PY4XX, op)	180,009
PY2RSA	97,350
PY4LH	48,672
PY1SAD	43,050
4A5E (XE1EE, op)	37,752
L77D (LU6DC, op)	5,472
PU2MEA	5,040
XQ3WD	3,312
JF1OVA	144
PY4NF	108

# Regional Leaders

Boxes list call sign, score, and class:

- M2 = Multioperator, Two Transmitter
- MM = Multioperator, Multitransmitter
- MSHP = Multioperator, Single Transmitter, High Power
- MSLP = Multioperator, Single Transmitter, Low Power
- SOHP = Single Operator, High Power
- SOHP-10 = Single Operator, High Power, 10 Meters
- SOHP-15 = Single Operator, High Power, 15 Meters
- SOHP-160 = Single Operator, High Power, 160 Meters
- SOHP-20 = Single Operator, High Power, 20 Meters
- SOHP-40 = Single Operator, High Power, 40 Meters
- SOHP-80 = Single Operator, High Power, 80 Meters
- SOLP = Single Operator, Low Power
- SOLP-10 = Single Operator, Low Power, 10 Meters
- SOLP-15 = Single Operator, Low Power, 15 Meters
- SOLP-160 = Single Operator, Low Power, 160 Meters
- SOLP-20 = Single Operator, Low Power, 20 Meters
- SOLP-40 = Single Operator, Low Power, 40 Meters
- SOLP-80 = Single Operator, Low Power, 80 Meters
- SOQRP = Single Operator, QRP
- SOQRP-10 = Single Operator, QRP, 10 Meters

- SOQRP-15 = Single Operator, QRP, 15 Meters
- SOQRP-20 = Single Operator, QRP, 20 Meters
- SOQRP-40 = Single Operator, QRP, 40 Meters
- SOQRP-80 = Single Operator, QRP, 80 Meters
- SOUHP = Single Operator Unlimited, High Power
- SOUHP-10 = Single Operator Unlimited, High Power, 10 Meters
- SOUHP-15 = Single Operator Unlimited, High Power, 15 Meters
- SOUHP-160 = Single Operator Unlimited, High Power, 160 Meters
- SOUHP-20 = Single Operator Unlimited, High Power, 20 Meters
- SOUHP-40 = Single Operator Unlimited, High Power, 40 Meters
- SOUHP-80 = Single Operator Unlimited, High Power, 80 Meters
- SOULP = Single Operator Unlimited, Low Power
- SOULP-10 = Single Operator Unlimited, Low Power, 10 Meters
- SOULP-15 = Single Operator Unlimited, Low Power, 15 Meters
- SOULP-160 = Single Operator Unlimited, Low Power, 160 Meters
- SOULP-20 = Single Operator Unlimited, Low Power, 20 Meters
- SOULP-40 = Single Operator Unlimited, Low Power, 40 Meters
- SOULP-80 = Single Operator Unlimited, Low Power, 80 Meters
- SOUQRP = Single Operator Unlimited, QRP
- SOUQRP-10 = Single Operator Unlimited, QRP, 10 Meters
- SOUQRP-15 = Single Operator Unlimited, QRP, 15 Meters
- SOUQRP-20 = Single Operator Unlimited, QRP, 20 Meters
- SOUQRP-40 = Single Operator Unlimited, QRP, 40 Meters

## West Coast Region

(Pacific, Northwestern and Southwestern Divisions. Alberta, British Columbia, and NT Sections)

N9RV	2,542,368	SOHP
ND7K (W4IX, op @N6WIN)	2,372,181	SOHP
K6XX	1,810,035	SOHP
AJ6V	633,255	SOHP
VE6WP	604,515	SOHP
WJ9B	1,007,259	SOLP
N7VM	255,744	SOLP
AK6A	202,491	SOLP
N6PN	141,933	SOLP
W7XZ	127,020	SOLP
W6JTI	261,126	SOQRP
W6QU (W8QZA, op)	150,084	SOQRP
N6HI	19,305	SOQRP
N7JI	15,873	SOQRP
N6AN	14,877	SOQRP

W6PH	1,919,442	SOUHP
N7XU (K4XU, op)	1,573,119	SOUHP
KA6BIM	1,473,960	SOUHP
KO7SS	1,458,441	SOUHP
N6RV	1,301,040	SOUHP
K7SS	539,280	SOULP
K6WSC	512,550	SOULP
K6JS	399,954	SOULP
KN7K	377,832	SOULP
K7TQ	263,484	SOULP
K2GMY	17,346	SOUQRP
W6/SP9JZT	8,892	SOUQRP
W7RH	1,890	SOUHP-160
W6RKC	3,540	SOHP-80
N6XI	4,455	SOUHP-80

K5CAO	90	SOULP-80	N6MZ	5,184	SOULP-10
VE7UF	131,400	SOHP-40	VE7ZX	1,680	SOULP-10
K6AR	66,933	SOHP-40	K6ICS	966	SOULP-10
N7WA	25,974	SOHP-40	AA7A	3,588,624	MSHP
VE7MR	3,975	SOLP-40	W7RM	3,414,474	MSHP
W7WA	345,618	SOHP-20	W8TK	1,889,244	MSHP
N7TU	279,015	SOHP-20	VE7NY	1,729,350	MSHP
N5CR	256,434	SOHP-20	VE7SAR	643,632	MSHP
WA7BNM	63,765	SOLP-20	N1SOH	13,770	MSLP
W7KK	7,722	SOLP-20	N7AT	3,622,224	M2
K8ANM	27	SOQRP-20	N7DX	2,818,725	M2
VE6WQ	202,065	SOUHP-20	KT7E	1,743,606	M2
VA7OM	119,793	SOUHP-20	W6YX	57,456	M2
KA7T	29,520	SOULP-20	N6RO	3,967,470	MM
K6TOR	2,430	SOULP-20	<b>Midwest Region</b>		
WB7QMR	1,170	SOULP-20	(Dakota, Midwest, Rocky Mountain, and West Gulf Divisions. Manitoba and Saskatchewan Sections)		
K7CTB	6	SOULP-20	K5GN	4,107,756	SOHP
W6YA	289,602	SOHP-15	N2IC	3,709,269	SOHP
VE7JH (@VE7UF)	148,050	SOHP-15	K5WA	2,179,818	SOHP
N6KN	127,575	SOHP-15	N5AW	2,123,874	SOHP
N6RM	16,986	SOLP-15	KØTT	980,679	SOHP
NP4IW/W6	10,200	SOLP-15	VE5SF	343,230	SOLP
KW6AA	726	SOLP-15	KØEA	316,512	SOLP
WA8ZNC	18	SOLP-15	NN5T	239,712	SOLP
N7DD	308,382	SOUHP-15	NAØN (@WØZT)	222,108	SOLP
K6LL	103,332	SOUHP-15	N5XE	202,536	SOLP
KY7M	48,240	SOUHP-15	NDØC	206,670	SOQRP
KD6X	48,165	SOUHP-15	N3CI	25,992	SOQRP
N7BV	25,110	SOUHP-15	AE5X	22,512	SOQRP
WV7S	5,325	SOULP-15	AEØEE	15,300	SOQRP
K6NV	7,575	SOUHP-10	NØUK	6,498	SOQRP
W6EU	3,948	SOUHP-10	N5RZ	1,863,552	SOUHP
			WX8C	1,564,143	SOUHP
			KØMD	1,443,000	SOUHP
			N9GB	1,150,389	SOUHP
			NØAT	1,110,456	SOUHP





WB9AYW	312	SOQRP			
			K7TAR	18,285	SOHP-20
VE3EJ	4,655,637	SOUHP	K3HZP	2,997	SOHP-20
N4SS (W5MX, op)	4,089,384	SOUHP			
WE9V	2,730,420	SOUHP	AF8A	22,050	SOLP-20
W8MJ	2,526,651	SOUHP	W8GOC	6,417	SOLP-20
VE3NNT	2,356,536	SOUHP			
			N8AP	31,320	SOQRP-20
WE9R	992,868	SOULP			
VE3NZ	730,800	SOULP	K8CX	548,130	SOUHP-20
VE3GFN	456,768	SOULP	N9CO	401,778	SOUHP-20
VE3MV	411,120	SOULP	W9ILY	225,720	SOUHP-20
KW4YA	342,726	SOULP	N8DE	143,172	SOUHP-20
KB9RPG	35,604	SOUQRP	W3IQ	83,421	SOULP-20
KU4A	8,184	SOUQRP			
K8ZT	243	SOUQRP	W8WA	59,436	SOHP-15
KØEMT	240	SOUQRP	KØ8Z	24,534	SOHP-15
W9EWZ	12,255	SOUHP-160	WB8JAY	5,760	SOLP-15
			W9KHH	2,088	SOLP-15
K9ZO	89,088	SOHP-80			
			KF4AV	7,659	SOQRP-15
AC8CE	3,888	SOLP-80			
			K8TS	37,536	SOUHP-15
VE3NRT	3,480	SOUHP-80	K9STM	3,045	SOUHP-15
K9CJ	30,072	SOHP-40	W9XT	192,900	SOULP-15
			WB8ASI	31,290	SOULP-15
W1NN	51,840	SOLP-40	WB9HFK	27,552	SOULP-15
W8UE	10,764	SOLP-40			
VE3LMS	6,210	SOLP-40	K2CUB	14,637	SOHP-10
W9QL	3,588	SOLP-40	W8TWA	14,208	SOHP-10
VE3PQ	2,139	SOLP-40	K8GU	13,908	SOHP-10
			KC4WQ	7,920	SOHP-10
KG9X	348,861	SOUHP-40	W9SE	2,961	SOHP-10
N9LR	28,275	SOUHP-40			
KK9V	9,954	SOUHP-40	K7CS	1,710	SOLP-10
N9NE	5,985	SOUHP-40	N8QE	45	SOLP-10
KG9Z	5,508	SOUHP-40	KB7ISP	3	SOLP-10
WB8K	37,989	SOULP-40	VE3VSM	1,530	SOULP-10
VE3OU	1,764	SOULP-40	VA3KKA (HK1A, op)	108	SOULP-10
KK9EJ	819	SOULP-40			
			VA3AMX	858	SOUQRP-10
KM4CH	5,247	SOUQRP-40			

AA9A	2,580,897	MSHP	KR4AE	134,994	SOUQRP
K8AZ	1,101,228	MSHP	W4ER	53,460	SOUQRP
VE3YAA	488,544	MSHP			
			W4ZV	28,200	SOHP-160
KA9VVQ	49,824	MSLP	N4XD	24,012	SOHP-160
K3MTR	1,197	MSLP			
			WW2R (G4FRE, op)	28,860	SOUHP-160
K9CT	7,250,607	M2	K2KW	19,551	SOUHP-160
VE3JM	6,078,726	M2	AG4W	9,348	SOUHP-160
K8LX	3,434,544	M2			
W9VW	3,416,400	M2	W4RN	864	SOULP-160
VE3IC	222,870	M2			
			KJ4QHL	55,260	SOHP-80
<b>Southeast Region</b>			K4ESE	11,766	SOHP-80
(Delta, Roanoke, and Southeastern Divisions)			K4RDU	2,070	SOHP-80
NN7CW	3,764,316	SOHP			
NR3X (N4YDU, op)	3,748,134	SOHP	K7LU	12,669	SOLP-80
N4AF	3,371,100	SOHP	W4TJM	5,940	SOLP-80
K4ZW	2,522,079	SOHP			
W4CB (W2RU, op)	2,515,896	SOHP	N6AR	102,144	SOUHP-80
			K5XS	9,720	SOUHP-80
K7SV	1,876,770	SOLP			
K4OAQ	1,199,529	SOLP	KA3EHL	1,920	SOLP-40
K3JT	576,444	SOLP			
K5FUV	574,560	SOLP	WAØUSA	10,320	SOQRP-40
W4SPR	530,640	SOLP			
			WA2MBP	107,352	SOUHP-40
K2DM	477,183	SOQRP	W3US	93,234	SOUHP-40
K3TW	45,756	SOQRP	NI7R	66,669	SOUHP-40
K2EKM	30,090	SOQRP	K3RV	66,456	SOUHP-40
WR4I	12,243	SOQRP			
W8DXU	5,616	SOQRP	N3AC	86,031	SOULP-40
			NS4T	37,752	SOULP-40
N8OO	5,843,526	SOUHP	N8KR	31,860	SOULP-40
K4AB	3,236,805	SOUHP	K3ORC	6,624	SOULP-40
W4NF	3,008,880	SOUHP			
N1LN	2,723,556	SOUHP	W4JKC	53,820	SOHP-20
N4UU	2,658,825	SOUHP	N4MM	15,732	SOHP-20
W9SN	2,796,594	SOULP	N4IJ	147,651	SOLP-20
N4XL	1,526,328	SOULP	N3EA	17,748	SOLP-20
K5EK	1,340,577	SOULP	NW4V	11,748	SOLP-20
WA4PGM	863,397	SOULP	K4FJW	6,588	SOLP-20
WA1S	730,080	SOULP	N8AID	4,602	SOLP-20
KA4RRU	695,634	SOUQRP	NK3U	83,700	SOQRP-20

WA4JUK	113,286	SOUHP-20
N4TOL	3	SOULP-20
K9AXT	7,182	SOUQRP-20
N4OX	294,900	SOHP-15
N8II	248,976	SOLP-15
WB4TDH	159,192	SOLP-15
K4AMC	45,012	SOLP-15
W6DVS	2,700	SOLP-15
NX4N	2,574	SOLP-15
WA1FCN	143,910	SOULP-15
KS4YX	1,404	SOULP-15
W4DD	23,814	SOHP-10
K1EEE	1,620	SOHP-10
KD5J	864	SOHP-10
N4NM	8,910	SOLP-10
N4HA	8,832	SOLP-10
KN4JN	1,776	SOLP-10
AC7N	468	SOLP-10
N1MT	675	SOQRP-10
N3CZ	60	SOQRP-10
W4SO	24,021	SOUHP-10
W5GAI	16,851	SOUHP-10
K5LG	14,835	SOUHP-10
W4PK	12,870	SOUHP-10
K4WI	9,396	SOUHP-10
W4HVVH	1,530	SOULP-10
KK4WX	1,260	SOULP-10
K7BV	1,852,416	MSHP
N4CW	1,583,568	MSHP
AD4ES	737,910	MSHP
W4TG	722,610	MSLP
N4WW	7,902,090	M2

K5KG 4,353,993 M2

**Northeast Region**

(New England, Hudson, and Atlantic Divisions; Maritime and Quebec Sections)

K5ZD	5,165,670	SOHP
K1ZZ	4,970,673	SOHP
AA1K	4,697,352	SOHP
KQ2M	4,553,256	SOHP
VY2TT	4,134,240	SOHP
W1WEF	1,270,512	SOLP
K1VUT	1,097,895	SOLP
K1HT	616,704	SOLP
VE1RSM	438,192	SOLP
K1MD	419,760	SOLP
NA1ME	170,016	SOQRP
W1UU	158,916	SOQRP
WB2CPU	117,576	SOQRP
AC2YD	56,118	SOQRP
NQ2W	51,264	SOQRP
AA3B	6,510,768	SOUHP
K3WW	5,719,140	SOUHP
VA2WA	5,095,800	SOUHP
W1UE	4,913,748	SOUHP
N3RS	4,824,780	SOUHP
K1XM	2,755,125	SOULP
N2RC	1,879,614	SOULP
W1QK	1,406,400	SOULP
WO1N	1,405,530	SOULP
W3KB	1,216,122	SOULP
K2AL	43,785	SOUQRP
KQ2RP	43,659	SOUQRP
KC2WUF	35,502	SOUQRP
KW2A	24,804	SOUQRP
W3EK	6,966	SOUQRP
VY2ZM (K1ZM, op)	81,840	SOHP-160
N1PGA	24,192	SOHP-160
WF2W	23,700	SOHP-160
AA1QD	1,539	SOHP-160

KM1R	10,947	SOLP-160				
			KB3AAY	64,791	SOULP-20	
VA1RST	5,760	SOUHP-160	K1IG	43,263	SOULP-20	
K1DJ	5,742	SOUHP-160	VE2HLS	38,415	SOULP-20	
			WX2N	28,814	SOULP-20	
W3BGN	111,510	SOHP-80	VE2IEA	28,026	SOULP-20	
W3NO	49,203	SOHP-80				
VY2OX	40,716	SOHP-80	KU2M	318,618	SOHP-15	
			AF2F	85,440	SOHP-15	
VE1AOE	2,415	SOLP-80	K3IU	56,940	SOHP-15	
			K3ISH	5,049	SOHP-15	
W3LL	77,847	SOULP-80				
W1DYJ	10,680	SOULP-80	K1TR	213,444	SOLP-15	
			K1EP	119,922	SOLP-15	
N2MF	402,978	SOHP-40	NU2A (N2GM, op)	39,600	SOLP-15	
W3AKD	6,018	SOHP-40	W3DF	14,847	SOLP-15	
VO1BQ	1,767	SOHP-40	W3EH	6,660	SOLP-15	
W3EF	108,528	SOLP-40	VE9AA	346,938	SOUHP-15	
AI1TT (W1WBB, op)	52,923	SOLP-40	W1VEM	123,816	SOUHP-15	
WA3FAE	43,920	SOLP-40	N2OO	76,626	SOUHP-15	
K2UF	38,232	SOLP-40	VO1CH	3,069	SOUHP-15	
NY1E	29,880	SOLP-40				
			N3KCM	6,264	SOULP-15	
W1IG	10,500	SOQRP-40	VA2VT	3,861	SOULP-15	
WK1O	229,500	SOUHP-40	VE9VIC	25,536	SOUQRP-15	
VE9ML	98,952	SOULP-40	VE1JS	3,276	SOHP-10	
W3IDT	31,683	SOULP-40	N3RW	1,008	SOHP-10	
N2CJ	25,137	SOULP-40	NO2C	189	SOHP-10	
WC2L	17,289	SOULP-40				
VE2GT	27	SOULP-40	N1NK	11,466	SOLP-10	
			WB2AMU	3,975	SOLP-10	
W2NTN	29,415	SOUQRP-40				
			N1MM	8,040	SOUHP-10	
KA2AEY	1,248	SOHP-20				
			VO1HP	12,960	SOULP-10	
W2TZ	83,106	SOLP-20	K2NF	900	SOULP-10	
K1EFI	33,174	SOLP-20				
			K1LZ	8,303,148	MSHP	
KQ1P	8,925	SOQRP-20	W2FU	5,589,432	MSHP	
			K2QMF	5,145,048	MSHP	
WA2OAX	386,805	SOUHP-20	K9RS	5,124,951	MSHP	
VE2FWW	203,112	SOUHP-20	K3AJ	3,128,316	MSHP	
W2AW (N2GM, op)	196,152	SOUHP-20				



NJ1F	506,655	MSLP			
			K3LR	11,536,965	MM
W3LPL	10,389,744	M2	K1TTT	8,809,398	MM
K2AX	6,028,113	M2	K1RX	8,651,772	MM
K1IR	5,841,234	M2	N1RR	3,625,398	MM
W2CG	4,487,343	M2	K1KP	1,784,244	MM
K1DW	3,979,872	M2			