CW Results of the 2024 CQ WW DX Contest

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"Stations were everywhere!! I wish it could be like this all the time! — G3OJL"

One Word for the 2024 CQ WW CW Contest --Wow!

What were you doing 76 years ago? An increasing number of hams can answer that question. For those of you that were around at that time, you had the opportunity to operate in the first CQ WW CW contest – the 1948 edition! Imagine a contest where there is no spotting, computers, automation, solid-state equipment, remote operating, etc. Try to envision a contest where the "big VFO knob" on your radio had a dominate role. Indeed only 817 contacts won the world singleoperator title in 1948 (W4KFC won the U.S. prize with 433 QSOs). That compares to this year's winning effort where CR6K (CT1ILT operator), the top rate winner, made a similar number of QSOs in approximately the first two hours of the contest!

Fast-forwarding to today, you can quickly realize how much has changed in the world of contesting and, in particular, with the CQ WW. Instead of just 559 entries in 1948, we received 8313 logs this time around representing a staggering total of 5,409,004 QSOs! It's no wonder that the CQ WW leads the world of contesting – both in terms of participation and adjudication.

Before we jump to the results, take a minute and check out this year's collection of soapbox comments. You can find them at: <u>https://cqww.com/soapboxcw.htm?yr=2024</u>. It's always fun to read what others have accomplished or a brief description of their first CQ WW experience. Here's just a small sample of what you'll find: "Ham radio bucket list item checked off -- single op on top of a volcano on a South Pacific island!"– FO/NX1P

"Wow, six bands open at once! This was one for the record books." – K3PA

"This was my very first contest in CW apart from Field Day. Great fun!" – VE1GY

"Wow – that was fun! After more than a 30-year hiatus, I reactivated my call this year and took part in the CQ WW again (last time I participated was back in 1991 under the call Z21HQ)." – DF2RQ

So, without further ado, let's get on with the results!

Some Incredible Scores!!

Nothing beats a solar disk filled with sunspots. It is the ultimate equalizer for contesters as large stations post incredible scores and the little guys wonder at what they can achieve with modest stations. As you review the 2024 CQ WW CW results, be advised there are no typos (or at least ones we know about!). Indeed, many records were set with 207 participating DX entities across the world. Whether you were able to land a run frequency on 28000.9 or enjoyed the relative comfort of 28119, the bands were simply filled with end-to-end activity, one of the marvels of the CQ WW contest.

The World Single-operator battle did not disappoint this year. In the end, Braco, E77DX, piloted the D4C superstation as D4DX to a new record-setting score of 20.2 million, beating Andy, N2NT, from his very fine V47T station, who racked up 15.9 million points. The combination of D4DX's location and being a "3-point" country was just too much for Andy to overcome this time around.

In a much closer battle, Bob, KQ2M, prevailed and took the U.S. Single-operator, All-band crown, posting an 8.4-million-point effort, just 300K above his closest competitor, Greg, W1KM, at 8.1 million. Greg had an especially accurate log with only a 1.1% error rate, losing just 54 QSOs out of 5076 entries – a fine accomplishment indeed! One last point is that the rankings of 4 through 10 for U.S. single-ops did not originate from the East Coast. Axel, KI6RRN, manning WA6TQT's California station, placed just behind the leaders with a fourth-place finish of 7.8 million.

Two regulars took the World Single Operator Low Power stage this time around. In the end, Bud, AA3B, delivered an amazing 14.2 million point result from V26K, beating Dimitri, RA3CO, at PZ5DX, who ended with a final score of 12.6 million. It's notable that Bud's low power score is #6 in the world amongst the high-power group – quite an achievement!

There was a shift in the Single Op QRP winners' circle this year as Dragan, 4O4A, operating from 4O3A, took the honors, posting a tremendous score of 2.2 million. Doug, KR2Q, was hot on his heels at 1.7 million for the silver medal. In the end, however, Dragan's effort was also impressive in that he made over 3000 QSOs with only five watts!

The World Single Operator Assisted group was actively involved in their own collective battles this year. The world-class station at P3X was skilfully driven by Serhiy, 5B4AMM (M0SDX) to a final score of 17.2 million points. Randy, K5ZD, went out in style with his final CQ WW effort from his Massachusetts (W1) location, generating a #2 World result of 13.8 million.

The single-band results provided some outstanding entertainment for us. The invasion of Saint Helena by Oliver, W6NV, and Andy, 5Z4VJ, resulted in top scores on single-bands 20 and 10 meters respectively with ZD7W and ZD7VJ callsigns. Ash, KF5EYY (also known from 3V8SS), produced a great single-band 15-meter effort of 1.2 million points. It was great to see most continents being represented in the Top 10 tables for this highly competitive group.

As is always the case, there were an abundance of multi-op stations to be worked in the 2024 CQ WW contest. Hard work and good planning paid off for the team from TK0C, who took the Multi-Single prize with a score of 20.0 million beating out the UP2L team who were not far behind at 19.7 million. The Multi-Two race also generated some impressive scores as the CR3A team won with 39.3 million besting the stellar operating team of PJ4K. Lastly, in what's becoming a regular event, the Multi-Multi titans were led again by CN3A, whose 13-member operating team from the Czech Republic produced a final score of 47.5 million points! There was also a huge battle in the U.S.-based Multi-Multi class with Team K1LZ narrowly beating the crew at KC1XX with a final tally of 32.14 million. Matt's "XX" crew was right behind at 32.08 million, demonstrating that every minute and every QSO matters.

And, not to be ignored, a shout-out for the Youth entries. Relatively new to our contesting ranks, KC1TNO, showed what perseverance and a good station can deliver for results as Luka generated an amazing score of 3.7 million, blowing away his youthful competitors. Well done, indeed!

As a final point, let's not forget the highly competitive club competitions. For yet another year, the perennial winners Frankford Radio Club and the Bavarian Contest each won their respective categories. Submitting scores on behalf of your radio club has become an extremely popular aspect of the CQ WW contest as nearly half of all entries indicate a club affiliation as part of their log submission.

With nearly 20,000 total logs received in the 2024 CQ WW contests, the only word that can be used is bravo; bravo to all of you that participated and bravo to those that helped produce this year's results!

Rate Machines at Work!

The hourly QSO rates on CW (and SSB as well) continue to amaze (see Table 1). I recall the days when 300+ total QSOs were a reasonable result from an average station in the CQ WW contest. Now, with the latest in 2-radio operating techniques, top stations are achieving this hour after hour – and, often with great accuracy. I'm not sure which of these data points are more impressive: the 394-hour from CR6K, V26K's 332hour with low power, or a rate of 144/hour by 4O4A while operating QRP!

CALL (OP)	CATEGORY	RATE
CR6K (CT1ILT)	SOAB(U) HP	394
V47T (N2NT)	SOAB(U) HP	369
ZF5T (N5DX)	SOAB(U) HP	341
EF6T (EA3M)	SOAB(U) HP	334
V26K (AA3B)	SOAB(U) LP	332
D4DX (E77DX)	SOAB(U) HP	320
8P5A (W2SC)	SOAB(U) HP	313
TO4A (VE3DZ)	SOAB(U) HP	302
PZ5DX (RA3CO)	SOAB(U) LP	296
KP2B (NP4Z)	SOAB(A) HP	288
CALL (OP)	CATEGORY	RATE
CALL (OP) V26K (AA3B)	CATEGORY SOAB(U) LP	RATE 332
. ,		
V26K (AA3B)	SOAB(U) LP	332
V26K (AA3B) PZ5DX (RA3CO)	SOAB(U) LP SOAB(U) LP	332 296
V26K (AA3B) PZ5DX (RA3CO) NN7CW	SOAB(U) LP SOAB(U) LP SOAB(U) LP	332 296 197
V26K (AA3B) PZ5DX (RA3CO) NN7CW EA5M	SOAB(U) LP SOAB(U) LP SOAB(U) LP SOAB(A) LP	332 296 197 192
V26K (AA3B) PZ5DX (RA3CO) NN7CW EA5M WP3C (WP3C)	SOAB(U) LP SOAB(U) LP SOAB(U) LP SOAB(A) LP SOAB(U) LP	332 296 197 192 184
V26K (AA3B) PZ5DX (RA3CO) NN7CW EA5M WP3C (WP3C) 4K6FO (4K6FO)	SOAB(U) LP SOAB(U) LP SOAB(U) LP SOAB(A) LP SOAB(U) LP SOAB(U) LP	332 296 197 192 184 182
V26K (AA3B) PZ5DX (RA3CO) NN7CW EA5M WP3C (WP3C) 4K6FO (4K6FO) UW5Y (US2YW)	SOAB(U) LP SOAB(U) LP SOAB(U) LP SOAB(A) LP SOAB(U) LP SOAB(U) LP SOAB(U) LP	332 296 197 192 184 182 181

CALL (OP)	CATEGORY	RATE
404A	SOAB(U) QRP	144
FS/KC9EE	SOAB(A) QRP	123
W1FJ	SOAB(U) QRP	100
KR2Q	SOAB(U) QRP	99
K7SV	SOAB(U) QRP	99
SF0A	SOAB(A) QRP	87
UZ5DM	SOAB(U) QRP	87
M1X (G0CKP)	SOAB(A) QRP	86
LY9A	SOAB(U) QRP	85
DM2M (DK3WE)	SOAB(A) QRP	79

Table 1 - High Single-Op 60-Minute QSO Rates byPower Category for the 2024 CQ WW CW Contest.

If you want more data, a full reporting of top rates for all entries can be found at https://cqww.com/rates/.

What Power Category Did You Enter?

In what proves to be both a blessing and a curse is the number of operating categories available to CQ WW participants. It's a blessing in that you have more opportunity to match your station's capabilities and personal skills against peer competitors. It's a curse from a contest administration point-of-view as more categories create more work in producing the final results and distributing awards.

This year's summary, found in Table 2, shows that Low Power entries continue to dominate the CQ WW landscape. There are likely several reasons for this, ranging from QTH limitations to budget constraints. It's notable that only North America leads with high power entries as compared to Europe, where low power carries a nearly 2:1 advantage.

Power Category	AF	AS	EU	NA	OC	SA	ALL	% Total
HIGH	10	303	861	895	35	35	2139	41%
LOW	12	466	1510	780	44	57	2869	55%
QRP	2	25	130	66	9	6	238	4%
Total	24	794	2501	1741	88	98	5246	100%

 Table 2 – 2024 CQ WW CW Single-op breakdown of power categories by continent (Assisted and Unassisted combined).

Some Straight Talk from the Director

The task of checking logs can be overwhelming at times for the CQ WW contest committee as we approach 20,000 annual entries. There are a few focal points that we concentrate on as part of our work. In addition to the usual cross-verification of QSOs as well as exchanges and times, we also look for violations in several other areas. These include unauthorized use of assistance, selfspotting, station interlocking, and out-of-band operating.

One area of the rules that has been in place for several years is the topic of signal quality and its applicability to proper sportsmanship. For the most part, we have not aggressively enforced this rule. However, it's become clear that the problem of dirty signals is growing in both modes. Wide signals, clicks, buzz/hum, and other issues are increasingly populating the bands.

It's rare that I choose to call out specific examples, but these stations and others need to heed the following warning: we will be taking more extreme actions next year up to and including disqualifications, if signals are not cleaned up. This list includes the following stations who possessed serious signal issues at times this year: TM6M, OK7O, 9A1P, RU1A, YT0A, and others. "We've done what we can" will not be an acceptable answer.

Lastly, be aware that it's relatively easy to detect these problems as we possess global SDR

recording capabilities that can replay virtually any part of the contest. For the moment, however, you have been warned.

And Finally...

As I finish my 7th year as your CQ WW Contest director, I want to pause a moment to acknowledge some of the best teammates in contesting --- the CQ WW Contest Committee. These guys serve in various roles, which collectively make my job so much easier, but more importantly allow us to produce the most accurate results possible. So, with profound thanks, I recognize: AA3B, Bud Trench; CT1BOH, José Nunes; EA4KD, Pedro Vadillo; F6BEE, Jacques Saget; G0MTN, Lee Volante; HA1AG, Zoli Pitman; IK2QEI, Stefano Brioschi; JH5GHM, Katsuhiro (Don) Kondou; K1DG, Doug Grant; K1EA, Ken Wolff; K3LR, Tim Duffy; K3WW, Charles Fulp; K5ZD, Randy Thompson; KR2Q, Doug Zwiebel; N3QE, Tim Shoppa; 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.

The sun continues to percolate, which will likely make for another banner year in the 2025 CQ WW. Hope to see you there!

73, John, K1AR CQ WW Contest Director

Stories from the 2024 CW CQ WW Contest

Operating from Zambia – 9J2FI

By way of introduction, I am Tom, DL2RMC, (also known as 9G5FI, HZ1FI, A65CW, SU9TH and several other calls). At the moment, I work at the Fountain Gate Crafts and Trades Vocational School in Lusaka, Zambia. Fortunately for contesters and DXers, I expect to be here until the end of 2026. The process of obtaining my 9J2FI license was quick and straightforward. The local communications authority, ZICTA, issued the license without any issues. Two weeks before the start of the WWDX CW contest, I arrived in Zambia with my equipment and antennas. The school, located about 15 km east of Lusaka, quickly approved the installation of my antennas. It turns out that there is a lot of space for antennas at the school. Although the school primarily teaches PV solar technology with many inverters and solar panels running 24/7, there is surprisingly very little local QRM.



Photo 1 – Tom, 9J2FI, gives a sign of approval to his local helpers assisting with the antennas.

Most of the students at the vocational school live on-site, as they come from all parts of the country, and travel can take several days. To provide the students with extracurricular activities, an electronics club and a ham radio club were established. Due to the limited available time before the contest, the antennas were only set-up temporarily. Many students helped with the setup. I used a Hexbeam, fixed to the north, installed six meters above the ground along with a 10-meter vertical wire tuned for 40 meters for the WW contest. A SUNSDR 100W transceiver was used for the station.

Propagation conditions were excellent during the contest. Due to my other commitments at the school, however, I was unable to participate over the full 48 hours and opted for the Classic category. In those 24 hours, I worked 2500 QSOs, primarily operating in RUN mode. Calling other stations was generally unsuccessful, as my signal was too weak.

Currently, Zambia is in the rainy season. Three days after the contest, lightning struck a tree next to the Hexbeam, felling the tree and causing light damage to the antenna. Since the antenna had only been temporarily set up, everything will be rebuilt at a better location along with other antennas. A separate radio room is also planned, and I expect to be very active on all bands over the next two years. Visitors and supporters are very welcome.

CU in the next Contest!

73, Tom, 9J2FI (DL2RMC)



Photo 2 – The mighty Hexbeam from 9J2FI performed surprisingly well.



Photo 3 – Nothing beats having local helpers to get the 9J2FI antenna farm on the air.



Photo 4 – Tom, 9J2FI, alongside one of the students demonstrating ham radio.

Location Matters! – UN4Q

My contest station is located at 1650 meters altitude above the clouds. As usual, I was operating with my SO2R setup: (2) Elecraft K3 transceivers. The antennas included both quads and monoband Yagis for 10-15-20-40 meters as well as 80/160 slopers and 300-meter beverages for five directions.

After placing in 2nd place in 2023, I decided to improve my 80/160 meter antennas, especially towards Asia, and spend more operating time on 10 meters each day, reaching almost 1500 QSOs on that band! Thanks to perfect weather conditions, no long wire antennas were damaged this year and propagation was excellent, resulting in my highest personal score in the CQ WW. Thanks to everybody who worked me!

73, Ruslan, UN4Q (also UA4Z)



Photo 5 – Here is Ruslan, UN4Q, at his wellappointed shack ready for the CQ WW.



Photo 6 – Location of UN4Q – what a view!!



Photo 7 – This is one way to be loud as demonstrated by the UN4Q antennas.



Photo 8 – It's good to be above the clouds at UN4Q.

Another Day of Contesting on St. Helena – ZD7W & ZD7VJ

ZD7W, Oliver W6NV, and ZD7VJ, Andy 5Z4VJ/G3AB, operated from a very quiet location at an old St. Helena farmhouse where they set-up portable antennas. Oliver's 20-meter effort yielded the high single band score and a new Zone 36 record. Andy's 10-meter score is also a high single band score, and an all-time 10-meter world record. Operating from a storage room, Andy deployed some contest nostalgia by using the antique Alpha 76A amplifier formerly manned by Jim, N6TJ/ZD8Z, who set many WW records decades ago.

In contrast, Oliver, ZD7W, using a modest set-up from the "comfort" of a kitchen table. Sometimes, simple is better. In the end, simplicity from a good QTH can produce amazing results!

73, Oliver, ZD7W (W6NV) and Andy, ZD7VJ (5Z4VJ/G3AB)



Photo 9 – Andy, ZD7VJ (5Z4VJ/G3AB) enduring a chilly shack to provide the masses with a rare 10 meter multiplier in the 2024 CW CQ WW.



Photo 10 – Here is Oliver, ZD7W (W6NV) rattling away on 20 meters!

Field Day Style Operating from Corsica – TK0C

The TK0C operations have now completed their 9th year. What started as a single van expedition to IS0 (II0C) in 2014 and continued as a M/S TK0C experiment in 2015, has evolved into a series of serious contest expeditions where we were first place EU every year since 2016 (4x - M2, 2x - M/S and 1x - MM).

Although we took a "sabbatical" in 2023 to taste how it feels to operate from D4C (WW#1 in MM), we knew we had to return to Corsica again!

TKOC is a pure "field day style" operation. All the equipment is transported there in one cargo van. Setting up the antennas, cables, and shack takes us three full days. If we are lucky with the weather, we get one day and a few nights of test operating before the contest. This year we were not lucky. In the previous seven years we never experienced the winds and seas of 2024. The wind was blowing at 50 km/h with gusts of 100 km/h the whole week and only calmed down on Friday evening. We kept all of the antennas low above the ground (the Spider beam was actually on the ground!), made several repeated repairs of the 40-meter verticals and were not able to operate much before the contest. The sea finally became usable on Saturday morning so we could finally raise the last

three antennas (10/15/20 meter VDA), while we fixed our 40-meter TX phased verticals just an hour before the beginning of the contest.

As always, our main goal was to be a world winner in the number of QSOs. This year we set the bar to 12K QSOs but were a bit short (looks like 12K is at the very limit for the us). The behind-the-scenes approach is to get as close as possible to the theoretical 100% time utilization for transmission and reception. In practice, the maximum achievable TX time is somewhere around 70% as you need to account for switchover time between the RUN TX and in-band TX. This year we took a one-hour video recording of the TX indicating LED to measure total TX time. The result was fascinating in a way: RUN was 40% of the time on TX, two in-band stations captured 23% of available TX time with no TX time coming in at 37%. In the end what matters is the in-band operating rate. For example, we know that one inband station can log 50 or 60 QSOs per hour. With two in-band stations this potential rises 100-120 additional QSOs that are unavailable to the run station. BUT (there is always at least one but), to make this happen, every hour 120 new stations must be there calling CQ. So, call CQ even if you are QRP, as our motto is, "If you are missing the

TK multiplier in your log, just call CQ and we will find you."

A maximum number of in-band QSOs are to be expected in the M/S category, which was confirmed in practice. This year we made exactly 3000 in-band QSOs which accounted for 27% of our total contacts (MULT station QSOs excluded).

Now, the "technology" behind our "RUN + 2x inband" setup can be summarized in just three requirements:

- In-band antennas shall be as good as the RUN antennas
- Isolation between the RUN and in-band 1, RUN and in-band 2 and between in-band 1 and in-band 2 shall be between 50 and 90dB (50dB on 160 meters; 90dB on 10 meters)
- Utilize an HF radio with extremely low composite TX noise.

You can find more details about our setup and operating approach in a NCJ article (July/August 2023) and on my web page (https://lea.hamradio.si/~s53ww/). Also be sure to check out our videos on grz.com.

73, Robi, S53WW, on behalf of the TK0C team



Photo 11 – Antenna farm of TK0C for the 2024 CQ WW CW Contest.



Photo 12 – At the edge of the sea from TK0C.



Photo 13 – Computers and wires at TK0C. Look hard and you'll also see some radios!



Photo 14 – TK0C operating team hard at work in the 2024 CQ WW CW Contest.



Photo 15 – It takes a village to win M/S in the 2024 CQ WW CW contest as demonstrated by the team from TK0C.

Exploring from Siberia – RG9A

Based on last year's experience, we decided to participate in the Multi-op Explorer category given that none of the contest positions in the Chelyabinsk region and indeed the entire Urals supported a fully capable, traditional Multi-Multi entry. This year we were able to organize three stations operating from two contest-positions -RG9A and R8AEC, the distance between them being about 130 km. Our Explorer entry utilized remote SDR web applications. However, even though the 2024 result decreased relative to 2023, we ended with a victory. The operators' on-air schedule was designed for six hours of work followed by a six-hour rest period. Of course, until the very last minute of the contest, we did everything possible to achieve the best result!

73, Yuri, RG9A (Chief of RM9A)

RG9A position:

3.5 MHz: 6-el phase $\frac{1}{2}$ wave vertical array @50 meters

7 MHz: 3-el rotary Yagi @25 meters

14 MHz: 5-el rotary Yagi @25 meters

21 MHz: 8-el rotary over bi-directional (W-E) 2x6-el Yagi stack @35 meters

28 MHz: 8-el rotary over bi-directional (W-E) 2x6-el over 2x6-el Yagi stack @35 meters

Rig: FTdx9000D / IC-756ProIII and 1 kW PA

R8AEC position:

1,8 MHz: 41-meter vertical on TX, 4 x Beverages (320 meters) on RX

3,5 MHz: 41-meter vertical on TX, 4 x Beverages (320 meters) on RX

7 MHz: 2-el quad @35 meters

14 MHz: 4-el quad @35 meters

Rig: IC-7700 and 1KW PA



Photo 16 – Yuri, RG9A (formerly UA9AM), at WRTC Russia!



Photo 17 – Some cool antennas can be found at R8AEC's "Explorer" station.



Photo 18 – There's a lot of fire power inside that fenced property at RG9A.

A Record-setting Weekend from Cape Verde – D4DX

Last year, I operated twice from the D4C multioperations. Unexpectedly this summer, after more than 11 years, I finally received an offer to operate the dream category of Single-Op, All Bands from D4C in the CQ WW DX contest. As a keen contester, I simply couldn't refuse the offer.



Photo 19 – This is not a military installation; it's the powerhouse station of D4C/D4DX!

D4C is primary configured as a Multi-Multi station. Ironically, for serious single-op efforts, extra equipment is needed. In my case, this included two additional large bags plus hand luggage to carry: a second Yaesu FTDX-10, two sets of automatic bandpass filters, automatic antenna switching for RX and TX, stack match switches for 40-10 meters with 300 meters of control cables, four microHAM Stack controllers, microHAM SO2R accessories and many other small items – a grand total of about 75 kg in extra equipment.

My decision to arrive at the station as early as possible before the contest was a very good one. To be fully prepared, I arrived at the station a full ten days before the contest, taking a total of 15 days for the entire adventure.

My journey started on 12th of November from Vienna, Austria, with an overnight stopover in Lisbon. Upon arriving at D4C, I immediately set-up the station on the same day. Mark D44FF, was there as he lives at the station. I was very thankful for his help and everything he did during my stay.



Photo 20 – Contesting with a view from D4C/D4DX.

Prior to departing for my trip, I started to prepare more seriously for 2BISQ (Two band synchronized interleaved QSO) operating by participating in small contests from E7 and listening to on-line N6MJ sound files. However, I quickly discovered that real-world pile ups before the contest were insane and a total mess.

In the week before the contest some other repairs were completed around the station with many of them were not directly related to the contest. One of the main problems couldn't be solved. The D4C power generator was broken and my search for a backup solution was not successful, which proved to be a serious exposure.

The Thursday before the contest was a rest day, which we spent in downtown Mindelo, enjoying good food and wine. Friday was devoted to finetuning and playing with my software logger. As afternoon approached, I managed to have 3-4 hours of sleep. Waking up two hours before the contest, I had a great pre-contest dinner, switched everything on and then one hour before the contest my worst nightmare took place -- a power outage.

Just a few minutes before the contest started, power was restored, however my DX-log configuration file was damaged, and I lost all my logger data. It took some time to reset everything, finally being prepared to go 15-20 minutes after the contest started! In some ways, I still don't know how I managed, but I was back in the game. The first day produced many hours around 300 QSOs/hour. Even though 10/15 meters closed a bit early by D4 standards, I finished the first day with 6K QSO in the log and around 10 million points. The second night was very difficult, with high noise levels and difficult pileups on the low bands, killing the rates achieved in the first day.

On the second day, propagation was not as good. Even though 10/15 meters produced some solid rates, the bands closed early, and I was forced to move to lower bands. 20 and 40 meters were very difficult with a lot of echoes and huge pileups. In the end I missed 10K QSO by a little bit but still finished the contest by claiming a new World Record.

This was my first SOAB CQ WW DX contest from the real DX side. The use of 2BISQ-style operating from this side is completely different in many ways forcing you to operate at a new and challenging level.

My sincere thanks to Luca, IK2NCJ, Max, IZ4DPV, and the whole D4C team for letting me use this great station and for their support and encouragement.

73, Braco, E77DX



Photo 21 – Braco, E77DX, managed to share a "sleepy smile" after completing his record-setting 20.2M point effort from D4DX.



Photo 22 – Fine dining is just one of the benefits of operating from Cape Verde!

The Montenegro Experience – 403A

It was a dream to utilize the 4O3A station. My short story is that I operated remotely from my office, which is about 12 km away on Obosnik Hill. The contest went so smoothly that I'm still not sure if this should be classified as "remote" or "non remote" operation. The same, or almost the same behavior was as if I was in the same room as the rack in Photo 25!

Thanks for a great contest and amazing experience!

73, Dragan, 404A



Photo 23 – Here is Dragan, 404A, along with his loyal assistant!



Photo 24 – Some of the impressive antennas at 403A. Note that there is much more on the ground waiting to be raised!



Photo 25 – 403A utilizes a FlexRadio 6700 as well as a Power Genius XL amplifier and Tuner Genius XL antenna tuner..

Band Breakdowns

WORLD SINGLE OPERATOR ALL BAND

High Power

			нıgn	Power		
D4DX	249/15/53	886/24/78	1475/31/91	1599/34/102	2801/35/125	2553/32/108
V47T	103/10/18	454/14/57	1858/31/97	2285/37/106	2714/34/112	2618/32/99
ZF5T	314/14/49	761/19/68	1673/29/83	2019/38/99	2550/32/99	2583/35/94
8P5A	185/10/29	578/20/67	1388/31/88	1722/35/94	2282/34/111	2843/34/110
CR6K	260/15/50	1079/21/72	2061/32/95	2072/36/96	2473/36/104	2342/35/98
TO4A	102/9/24	619/16/60	1443/31/92	1565/35/99	2057/34/100	2222/35/100
EF6T	178/8/40	1072/19/71	2097/32/95	2057/33/91	1930/33/97	2024/34/98
VE3JM	295/14/39	792/14/58	1457/27/84	1352/31/89	870/30/84	1554/32/96
VESOM VY2TT			1366/27/86			
	21/7/13 222/11/47	1010/15/61 711/22/74	1220/30/92	1395/33/89 903/36/105	1451/27/88 1021/29/104	1424/26/88 1201/30/99
RA9P	222/11/4/	/11/22//4			1021/29/104	1201/30/99
			Low]	Power		
V26K	92/9/22	420/14/60	1767/30/93	1646/38/100	2302/35/106	2615/33/104
PZ5DX	8/2/8	175/17/46	979/32/91	1459/36/101	1676/35/112	2609/38/119
UB7K	181/11/48	503/20/72	1209/31/105	802/33/100	1022/35/113	899/35/107
NN7CW	12/5/8	202/13/53	645/23/71	816/31/84	877/26/77	1192/31/86
NIUR	44/8/24	288/14/48	742/25/87	533/31/82	817/29/92	695/28/92
4X7M	73/5/31	438/10/47	710/17/60	992/21/69	762/22/66	785/25/66
UW5Y	169/9/41	420/16/61	811/28/77	622/26/66	927/29/77	841/33/96
LY4L	235/8/40	454/16/62	815/26/92	612/25/78	582/31/90	694/31/97
OR2F	133/10/45	479/16/66	679/28/88	475/24/71	796/32/89	500/29/59
OL5Y	157/9/45	532/16/64	821/24/78	687/25/66	552/26/83	562/27/68
OLJI	137/9/43	552/10/04			JJZ/20/0J	502/27/00
			QI	RP		
404A	0/0/0	96/5/29	974/20/72	754/19/68	630/23/69	630/24/67
KR2Q	3/2/2	44/10/25	207/19/68	305/24/79	319/32/100	424/27/84
LY9Ã	84/4/26	405/9/45	335/23/72	349/22/62	482/22/76	299/24/63
IZ3NVR	30/3/17	286/15/70	217/26/77	263/20/65	311/24/74	307/31/74
DK7HA	105/6/34	322/12/50	211/18/57	293/18/52	302/22/70	305/22/40
	100/0/01		211/10/07		502/22/10	505/22/10
W1 FJ	7/3/4	43/9/29	181/17/63	207/22/65	231/18/65	256/19/68
W1FJ DF0BV	7/3/4 10/3/10	43/9/29 108/7/34	181/17/63 168/15/48	207/22/65	231/18/65 257/23/66	256/19/68 244/25/56
DF0BV	10/3/10	108/7/34	168/15/48	208/22/60	257/23/66	244/25/56
DF0BV ND0C	10/3/10 3/2/2	108/7/34 13/7/5	168/15/48 73/12/35	208/22/60 174/26/65	257/23/66 204/22/67	244/25/56 276/28/73
DF0BV ND0C JR4DAH	10/3/10 3/2/2 0/0/0	108/7/34 13/7/5 9/5/5	168/15/48 73/12/35 140/20/40	208/22/60 174/26/65 171/23/46	257/23/66 204/22/67 281/24/56	244/25/56 276/28/73 264/27/51
DF0BV ND0C	10/3/10 3/2/2 0/0/0 3/1/2	108/7/34 13/7/5 9/5/5 46/15/14	168/15/48 73/12/35 140/20/40 148/24/48	208/22/60 174/26/65 171/23/46 107/24/45	257/23/66 204/22/67 281/24/56 254/25/48	244/25/56 276/28/73 264/27/51 280/23/50
DF0BV ND0C JR4DAH	10/3/10 3/2/2 0/0/0	108/7/34 13/7/5 9/5/5	168/15/48 73/12/35 140/20/40	208/22/60 174/26/65 171/23/46 107/24/45	257/23/66 204/22/67 281/24/56 254/25/48	244/25/56 276/28/73 264/27/51 280/23/50
DF0BV ND0C JR4DAH	10/3/10 3/2/2 0/0/0 3/1/2	108/7/34 13/7/5 9/5/5 46/15/14	168/15/48 73/12/35 140/20/40 148/24/48 OPERAT(208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS	257/23/66 204/22/67 281/24/56 254/25/48	244/25/56 276/28/73 264/27/51 280/23/50
DF0BV ND0C JR4DAH JH10GC	10/3/10 3/2/2 0/0/0 3/1/2 WORLD	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE	168/15/48 73/12/35 140/20/40 148/24/48 OPERATO High	208/22/60 174/26/65 171/23/46 107/24/45 OR ASSIS Power	257/23/66 204/22/67 281/24/56 254/25/48	244/25/56 276/28/73 264/27/51 280/23/50
DF0BV ND0C JR4DAH JH10GC P3X	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85	168/15/48 73/12/35 140/20/40 148/24/48 OPERATO High 1555/34/124	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120
DF0BV ND0C JR4DAH JH10GC	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81	168/15/48 73/12/35 140/20/40 148/24/48 OPERATO High 1555/34/124 1476/36/126	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131
DF0BV ND0C JR4DAH JH10GC P3X	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 338/20/75	168/15/48 73/12/35 140/20/40 148/24/48 OPERATO High 1555/34/124 1476/36/126 1116/32/109	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128 1404/38/124	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137 1378/38/132	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139
DF0BV ND0C JR4DAH JH10GC P3X K5ZD KP4AA P44W	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40 143/12/35	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 338/20/75 313/18/64	168/15/48 73/12/35 140/20/40 148/24/48 OPERATO High 1555/34/124 1476/36/126 1116/32/109 887/32/108	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128 1404/38/124 981/38/118	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137 1378/38/132 1358/38/120	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139 1790/36/127
DF0BV ND0C JR4DAH JH10GC P3X K5ZD KP4AA	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40 143/12/35 286/18/62	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 338/20/75 313/18/64 779/25/87	168/15/48 73/12/35 140/20/40 148/24/48 OPERATO High 1555/34/124 1476/36/126 1116/32/109 887/32/108 1336/36/124	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128 1404/38/124	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137 1378/38/132 1358/38/120 1353/38/131	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139 1790/36/127 1444/38/131
DF0BV ND0C JR4DAH JH10GC P3X K5ZD KP4AA P44W	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40 143/12/35	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 338/20/75 313/18/64	168/15/48 73/12/35 140/20/40 148/24/48 OPERATO High 1555/34/124 1476/36/126 1116/32/109 887/32/108	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128 1404/38/124 981/38/118	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137 1378/38/132 1358/38/120	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139 1790/36/127
DF0BV ND0C JR4DAH JH10GC P3X K5ZD KP4AA P44W OM0R	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40 143/12/35 286/18/62	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 338/20/75 313/18/64 779/25/87 527/19/78 358/25/88	168/15/48 73/12/35 140/20/40 148/24/48 OPERATO High 1555/34/124 1476/36/126 1116/32/109 887/32/108 1336/36/124	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128 1404/38/124 981/38/118 1118/36/122	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137 1378/38/132 1358/38/120 1353/38/131	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139 1790/36/127 1444/38/131
DF0BV ND0C JR4DAH JH10GC P3X K5ZD KP4AA P44W OM0R VA2WA	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40 143/12/35 286/18/62 288/13/55	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 338/20/75 313/18/64 779/25/87 527/19/78	168/15/48 73/12/35 140/20/40 148/24/48 OPERATC High 1555/34/124 1476/36/126 1116/32/109 887/32/108 1336/36/124 1105/27/117	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128 1404/38/124 981/38/118 1118/36/122 1248/38/123	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137 1378/38/132 1358/38/120 1353/38/131 1129/37/132	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139 1790/36/127 1444/38/131 1008/35/132
DF0BV ND0C JR4DAH JH10GC P3X K5ZD KP4AA P44W OM0R VA2WA K1ZZ	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40 143/12/35 286/18/62 288/13/55 59/12/39	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 338/20/75 313/18/64 779/25/87 527/19/78 358/25/88	168/15/48 73/12/35 140/20/40 148/24/48 OPERATC High 1555/34/124 1476/36/126 1116/32/109 887/32/108 1336/36/124 1105/27/117 1092/36/128	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128 1404/38/124 981/38/118 1118/36/122 1248/38/123 1034/37/130	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137 1378/38/132 1358/38/120 1353/38/131 1129/37/132 1009/38/139	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139 1790/36/127 1444/38/131 1008/35/132 1001/35/133
DF0BV ND0C JR4DAH JH10GC P3X K5ZD KP4AA P44W OM0R VA2WA K1ZZ II2Q	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40 143/12/35 286/18/62 288/13/55 59/12/39 137/15/62	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 338/20/75 313/18/64 779/25/87 527/19/78 358/25/88 439/22/85	168/15/48 73/12/35 140/20/40 148/24/48 OPERATC High 1555/34/124 1476/36/126 1116/32/109 887/32/108 1336/36/124 1105/27/117 1092/36/128 1103/33/118	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128 1404/38/124 981/38/118 1118/36/122 1248/38/123 1034/37/130 1099/37/127	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137 1378/38/132 1358/38/120 1353/38/131 1129/37/132 1009/38/139 1350/38/130	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139 1790/36/127 1444/38/131 1008/35/132 1001/35/133 1054/36/128
DF0BV ND0C JR4DAH JH10GC P3X K5ZD KP4AA P44W OM0R VA2WA K1ZZ II2Q KP2B	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40 143/12/35 286/18/62 288/13/55 59/12/39 137/15/62 81/11/30	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 338/20/75 313/18/64 779/25/87 527/19/78 358/25/88 439/22/85 323/15/58	168/15/48 73/12/35 140/20/40 148/24/48 OPERATO High 1555/34/124 1476/36/126 1116/32/109 887/32/108 1336/36/124 1105/27/117 1092/36/128 1103/33/118 1087/28/104 889/33/115	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128 1404/38/124 981/38/118 1118/36/122 1248/38/123 1034/37/130 1099/37/127 1264/37/110 1289/38/125	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137 1378/38/132 1358/38/132 1353/38/131 1129/37/132 1009/38/139 1350/38/130 1526/38/116	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139 1790/36/127 1444/38/131 1008/35/132 1001/35/133 1054/36/128 1623/34/103
DF0BV ND0C JR4DAH JH10GC P3X K5ZD KP4AA P44W OM0R VA2WA K1ZZ II2Q KP2B ED7W	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40 143/12/35 286/18/62 288/13/55 59/12/39 137/15/62 81/11/30 119/14/46	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 338/20/75 313/18/64 779/25/87 527/19/78 358/25/88 439/22/85 323/15/58 363/22/80	168/15/48 73/12/35 140/20/40 148/24/48 OPERATO High 1555/34/124 1476/36/126 1116/32/109 887/32/108 1336/36/124 1105/27/117 1092/36/128 1103/33/118 1087/28/104 889/33/115	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128 1404/38/124 981/38/118 1118/36/122 1248/38/123 1034/37/130 1099/37/127 1264/37/110 1289/38/125 Power	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137 1378/38/132 1358/38/120 1353/38/131 1129/37/132 1009/38/139 1350/38/130 1526/38/116 1564/38/128	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139 1790/36/127 1444/38/131 1008/35/132 1001/35/133 1054/36/128 1623/34/103 1277/36/126
DF0BV ND0C JR4DAH JH10GC P3X K5ZD KP4AA P44W OM0R VA2WA K1ZZ II2Q KP2B ED7W UN4Q	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40 143/12/35 286/18/62 288/13/55 59/12/39 137/15/62 81/11/30 119/14/46	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 338/20/75 313/18/64 779/25/87 527/19/78 358/25/88 439/22/85 323/15/58 363/22/80	168/15/48 73/12/35 140/20/40 148/24/48 OPERATO High 1555/34/124 1476/36/126 1116/32/109 887/32/108 1336/36/124 1105/27/117 1092/36/128 1103/33/118 1087/28/104 889/33/115 Low J 793/29/95	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128 1404/38/124 981/38/118 1118/36/122 1248/38/123 1034/37/130 1099/37/127 1264/37/110 1289/38/125 Power 671/33/95	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137 1378/38/132 1358/38/120 1353/38/131 1129/37/132 1009/38/139 1350/38/130 1526/38/116 1564/38/128	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139 1790/36/127 1444/38/131 1008/35/132 1001/35/133 1054/36/128 1623/34/103 1277/36/126 1436/32/101
DF0BV ND0C JR4DAH JH10GC P3X K5ZD KP4AA P44W OM0R VA2WA K1ZZ II2Q KP2B ED7W UN4Q ZM1A	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40 143/12/35 286/18/62 288/13/55 59/12/39 137/15/62 81/11/30 119/14/46 97/9/38 0/0/0	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 338/20/75 313/18/64 779/25/87 527/19/78 358/25/88 439/22/85 323/15/58 363/22/80 450/19/73 34/13/17	168/15/48 73/12/35 140/20/40 148/24/48 OPERATO High 1555/34/124 1476/36/126 1116/32/109 887/32/108 1336/36/124 1105/27/117 1092/36/128 1103/33/118 1087/28/104 889/33/115 Low J 793/29/95 1108/33/95	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128 1404/38/124 981/38/118 1118/36/122 1248/38/123 1034/37/130 1099/37/127 1264/37/110 1289/38/125 Power 671/33/95 1151/30/83	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137 1378/38/132 1358/38/120 1353/38/131 1129/37/132 1009/38/139 1350/38/130 1526/38/116 1564/38/128 703/28/99 800/31/84	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139 1790/36/127 1444/38/131 1008/35/132 1001/35/133 1054/36/128 1623/34/103 1277/36/126 1436/32/101 927/28/70
DF0BV ND0C JR4DAH JH10GC P3X K5ZD KP4AA P44W OM0R VA2WA K1ZZ II2Q KP2B ED7W UN4Q ZM1A DM7A	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40 143/12/35 286/18/62 288/13/55 59/12/39 137/15/62 81/11/30 119/14/46 97/9/38 0/0/0 113/11/52	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 338/20/75 313/18/64 779/25/87 527/19/78 358/25/88 439/22/85 323/15/58 363/22/80 450/19/73 34/13/17 535/16/76	168/15/48 73/12/35 140/20/40 148/24/48 OPERATO High 1555/34/124 1476/36/126 1116/32/109 887/32/108 1336/36/124 1105/27/117 1092/36/128 1103/33/118 1087/28/104 89/33/115 Low J 793/29/95 1108/33/95 663/30/105	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128 1404/38/124 981/38/118 1118/36/122 1248/38/123 1034/37/130 1099/37/127 1264/37/110 1289/38/125 Power 671/33/95 1151/30/83 733/36/125	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137 1378/38/132 1358/38/120 1353/38/131 1129/37/132 1009/38/139 1350/38/130 1526/38/116 1564/38/128 703/28/99 800/31/84 661/38/127	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139 1790/36/127 1444/38/131 1008/35/132 1001/35/133 1054/36/128 1623/34/103 1277/36/126 1436/32/101 927/28/70 564/37/121
DF0BV ND0C JR4DAH JH10GC P3X K5ZD KP4AA P44W OM0R VA2WA K1ZZ II2Q KP2B ED7W UN4Q ZM1A DM7A KI1G	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40 143/12/35 286/18/62 288/13/55 59/12/39 137/15/62 81/11/30 119/14/46 97/9/38 0/0/0 113/11/52 26/7/17	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 338/20/75 313/18/64 779/25/87 527/19/78 358/25/88 439/22/85 323/15/58 363/22/80 450/19/73 34/13/17 535/16/76 196/15/66	168/15/48 73/12/35 140/20/40 148/24/48 OPERATC High 1555/34/124 1476/36/126 1116/32/109 887/32/108 1336/36/124 1105/27/117 1092/36/128 1103/33/118 1087/28/104 89/33/115 Low J 793/29/95 1108/33/95 663/30/105 425/25/99	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128 1404/38/124 981/38/118 1118/36/122 1248/38/123 1034/37/130 1099/37/127 1264/37/110 1289/38/125 Power 671/33/95 1151/30/83 733/36/125 610/38/117	257/23/66 204/22/67 281/24/56 254/25/48 STED ALLI 1586/37/119 1078/37/137 1378/38/132 1358/38/120 1353/38/131 1129/37/132 1009/38/139 1350/38/130 1526/38/116 1564/38/128 703/28/99 800/31/84 661/38/127 696/38/130	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139 1790/36/127 1444/38/131 1008/35/132 1001/35/133 1054/36/128 1623/34/103 1277/36/126 1436/32/101 927/28/70 564/37/121 769/32/125
DF0BV ND0C JR4DAH JH10GC P3X K5ZD KP4AA P44W OM0R VA2WA K1ZZ II2Q KP2B ED7W UN4Q ZM1A DM7A KI1G DJ4MX	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40 143/12/35 286/18/62 288/13/55 59/12/39 137/15/62 81/11/30 119/14/46 97/9/38 0/0/0 113/11/52 26/7/17 70/9/45	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 338/20/75 313/18/64 779/25/87 527/19/78 358/25/88 439/22/85 323/15/58 363/22/80 450/19/73 34/13/17 535/16/76 196/15/66 241/16/70	168/15/48 73/12/35 140/20/40 148/24/48 OPERATC High 1555/34/124 1476/36/126 116/32/109 87/32/108 1336/36/124 105/27/117 1092/36/128 1103/33/118 1087/28/104 889/33/115 Low J 793/29/95 1108/33/95 663/30/105 425/25/99 576/31/106	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128 1404/38/124 981/38/118 1118/36/122 1248/38/123 1034/37/130 1099/37/127 1264/37/110 1289/38/125 Power 671/33/95 1151/30/83 733/36/125 610/38/117 480/36/119	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137 1378/38/132 1358/38/120 1353/38/131 1129/37/132 1009/38/139 1350/38/130 1526/38/116 1564/38/128 703/28/99 800/31/84 661/38/127 696/38/130 538/37/123	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139 1790/36/127 1444/38/131 1008/35/132 1001/35/133 1054/36/128 1623/34/103 1277/36/126 1436/32/101 927/28/70 564/37/121 769/32/125 654/37/125
DF0BV ND0C JR4DAH JH10GC P3X K5ZD KP4AA P44W OM0R VA2WA K1ZZ II2Q KP2B ED7W UN4Q ZM1A DM7A KI1G DJ4MX EA5M	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40 143/12/35 286/18/62 288/13/55 59/12/39 137/15/62 81/11/30 119/14/46 97/9/38 0/0/0 113/11/52 26/7/17 70/9/45 30/6/26	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 338/20/75 313/18/64 779/25/87 527/19/78 358/25/88 439/22/85 323/15/58 363/22/80 450/19/73 34/13/17 535/16/76 196/15/66 241/16/70 173/15/64	168/15/48 73/12/35 140/20/40 148/24/48 OPERATC High 1555/34/124 1476/36/126 116/32/109 87/32/108 1336/36/124 1105/27/117 1092/36/128 1103/33/118 1087/28/104 89/33/115 Low J 793/29/95 1108/33/95 663/30/105 425/25/99 576/31/106 737/28/91	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128 1404/38/124 981/38/118 118/36/122 1248/38/123 1034/37/130 1099/37/127 1264/37/110 1289/38/125 Power 671/33/95 1151/30/83 733/36/125 610/38/117 480/36/119 475/28/90	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137 1378/38/132 1358/38/130 1353/38/131 1129/37/132 1009/38/139 1350/38/130 1526/38/116 1564/38/128 703/28/99 800/31/84 661/38/127 696/38/130 538/37/123 998/37/112	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139 1790/36/127 1444/38/131 1008/35/132 1001/35/133 1054/36/128 1623/34/103 1277/36/126 1436/32/101 927/28/70 564/37/121 769/32/125 654/37/125 1102/32/111
DF0BV ND0C JR4DAH JH10GC P3X K5ZD KP4AA P44W OM0R VA2WA K1ZZ II2Q KP2B ED7W UN4Q ZM1A DM7A K11G DJ4MX EA5M R8CT	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40 143/12/35 286/18/62 288/13/55 59/12/39 137/15/62 81/11/30 119/14/46 97/9/38 0/0/0 113/11/52 26/7/17 70/9/45 30/6/26 57/8/28	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 38/20/75 313/18/64 779/25/87 527/19/78 358/25/88 439/22/85 323/15/58 363/22/80 450/19/73 34/13/17 535/16/76 196/15/66 241/16/70 173/15/64 262/17/62	168/15/48 73/12/35 140/20/40 148/24/48 OPERATC High 1555/34/124 1476/36/126 1116/32/109 887/32/108 1336/36/124 1105/27/117 1092/36/128 1103/33/118 1087/28/104 889/33/115 Low J 793/29/95 1108/33/95 663/30/105 425/25/99 576/31/106 737/28/91 619/28/104	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 193/38/128 1404/38/124 981/38/118 118/36/122 1248/38/123 1034/37/130 1099/37/127 1264/37/110 1289/38/125 Power 671/33/95 1151/30/83 733/36/125 610/38/117 480/36/119 475/28/90 381/34/115	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137 1378/38/132 1358/38/132 1358/38/120 1353/38/131 1129/37/132 1009/38/139 1350/38/130 1526/38/116 1564/38/128 703/28/99 800/31/84 661/38/127 696/38/130 538/37/123 998/37/112 493/32/111	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139 1790/36/127 1444/38/131 1008/35/132 1001/35/133 1054/36/128 1623/34/103 1277/36/126 1436/32/101 927/28/70 564/37/121 769/32/125 654/37/125 1102/32/111 588/31/107
DF0BV ND0C JR4DAH JH10GC P3X K5ZD KP4AA P44W OM0R VA2WA K1ZZ II2Q KP2B ED7W UN4Q ZM1A DM7A K11G DJ4MX EA5M R8CT SN70	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40 143/12/35 286/18/62 288/13/55 59/12/39 137/15/62 81/11/30 119/14/46 97/9/38 0/0/0 113/11/52 26/7/17 70/9/45 30/6/26 57/8/28 231/9/52	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 338/20/75 313/18/64 779/25/87 527/19/78 358/25/88 439/22/85 323/15/58 363/22/80 450/19/73 34/13/17 535/16/76 196/15/66 241/16/70 173/15/64 262/17/62 647/17/69	168/15/48 73/12/35 140/20/40 148/24/48 OPERATC High 1555/34/124 1476/36/126 1116/32/109 887/32/108 1336/36/124 105/27/117 1092/36/128 1103/33/118 1087/28/104 889/33/115 COW I 793/29/95 1108/33/95 663/30/105 425/25/99 576/31/106 737/28/91 619/28/104 571/29/94	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128 1404/38/124 981/38/118 118/36/122 1248/38/123 1034/37/130 1099/37/127 1264/37/110 1289/38/125 Power 671/33/95 1151/30/83 733/36/125 610/38/117 480/36/119 475/28/90 381/34/115 444/35/113	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137 1378/38/132 1358/38/120 1353/38/131 1129/37/132 1009/38/139 1350/38/130 1526/38/116 1564/38/128 703/28/99 800/31/84 661/38/127 696/38/130 538/37/123 998/37/112 493/32/111 490/37/119	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139 1790/36/127 1444/38/131 1008/35/132 1001/35/133 1054/36/128 1623/34/103 1277/36/126 1436/32/101 927/28/70 564/37/121 769/32/125 654/37/125 1102/32/111 588/31/107 475/35/117
DF0BV ND0C JR4DAH JH10GC P3X K5ZD KP4AA P44W OM0R VA2WA K1ZZ II2Q KP2B ED7W UN4Q ZM1A DM7A K11G DJ4MX EA5M R8CT SN70 DL4FN	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40 143/12/35 286/18/62 288/13/55 59/12/39 137/15/62 81/11/30 119/14/46 97/9/38 0/0/0 113/11/52 26/7/17 70/9/45 30/6/26 57/8/28 231/9/52 16/2/16	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 338/20/75 313/18/64 779/25/87 527/19/78 358/25/88 439/22/85 323/15/58 363/22/80 450/19/73 34/13/17 535/16/76 196/15/66 241/16/70 173/15/64 262/17/62 647/17/69 296/12/58	168/15/48 73/12/35 140/20/40 148/24/48 OPERATC High 1555/34/124 1476/36/126 1116/32/109 887/32/108 1336/36/124 1105/27/117 1092/36/128 1103/33/118 1087/28/104 889/33/115 Low 1 793/29/95 1108/33/95 663/30/105 425/25/99 576/31/106 737/28/91 619/28/104 571/29/94 332/21/80	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128 1404/38/124 981/38/118 118/36/122 1248/38/123 1034/37/130 1099/37/127 1264/37/110 1289/38/125 Power 671/33/95 1151/30/83 733/36/125 610/38/117 480/36/119 475/28/90 381/34/115 444/35/113 558/36/115	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137 1378/38/132 1358/38/120 1353/38/131 1129/37/132 1009/38/139 1350/38/130 1526/38/116 1564/38/128 703/28/99 800/31/84 661/38/127 696/38/130 538/37/123 998/37/112 493/32/111 490/37/119 556/36/120	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139 1790/36/127 1444/38/131 1008/35/132 1001/35/133 1054/36/128 1623/34/103 1277/36/126 1436/32/101 927/28/70 564/37/121 769/32/125 564/37/125 1102/32/111 588/31/107 475/35/117 586/36/110
DF0BV ND0C JR4DAH JH10GC P3X K5ZD KP4AA P44W OM0R VA2WA K1ZZ II2Q KP2B ED7W UN4Q ZM1A DM7A K11G DJ4MX EA5M R8CT SN70	10/3/10 3/2/2 0/0/0 3/1/2 WORLD 160/12/50 130/15/53 170/14/40 143/12/35 286/18/62 288/13/55 59/12/39 137/15/62 81/11/30 119/14/46 97/9/38 0/0/0 113/11/52 26/7/17 70/9/45 30/6/26 57/8/28 231/9/52	108/7/34 13/7/5 9/5/5 46/15/14 SINGLE 992/25/85 375/20/81 338/20/75 313/18/64 779/25/87 527/19/78 358/25/88 439/22/85 323/15/58 363/22/80 450/19/73 34/13/17 535/16/76 196/15/66 241/16/70 173/15/64 262/17/62 647/17/69	168/15/48 73/12/35 140/20/40 148/24/48 OPERATC High 1555/34/124 1476/36/126 1116/32/109 887/32/108 1336/36/124 105/27/117 1092/36/128 1103/33/118 1087/28/104 889/33/115 COW I 793/29/95 1108/33/95 663/30/105 425/25/99 576/31/106 737/28/91 619/28/104 571/29/94	208/22/60 174/26/65 171/23/46 107/24/45 DR ASSIS Power 1368/35/116 1193/38/128 1404/38/124 981/38/118 118/36/122 1248/38/123 1034/37/130 1099/37/127 1264/37/110 1289/38/125 Power 671/33/95 1151/30/83 733/36/125 610/38/117 480/36/119 475/28/90 381/34/115 444/35/113	257/23/66 204/22/67 281/24/56 254/25/48 STED ALL 1586/37/119 1078/37/137 1378/38/132 1358/38/120 1353/38/131 1129/37/132 1009/38/139 1350/38/130 1526/38/116 1564/38/128 703/28/99 800/31/84 661/38/127 696/38/130 538/37/123 998/37/112 493/32/111 490/37/119	244/25/56 276/28/73 264/27/51 280/23/50 BAND 2147/37/120 1475/34/131 1975/37/139 1790/36/127 1444/38/131 1008/35/132 1001/35/133 1054/36/128 1623/34/103 1277/36/126 1436/32/101 927/28/70 564/37/121 769/32/125 654/37/125 1102/32/111 588/31/107 475/35/117

QRP

DM2M	124/11/48	358/14/62	307/23/85	347/33/105	485/33/107	426/34/99
DR3W	120/10/43	299/13/58	295/25/84	346/32/92	244/32/88	312/30/76
M1X	0/0/0	246/10/48	289/16/64	326/18/58	308/20/66	99/19/32
HG50	0/0/0	292/12/56	259/22/68	201/21/60	164/23/58	112/20/36
M7R	26/2/13	216/8/40	244/12/51	139/16/49	167/19/55	200/21/48
SQ2ICX	41/5/26	71/9/38	107/15/55	108/26/71	115/24/68	115/24/65
K6JS	0/0/0	18/6/5	51/13/16	45/16/22	190/26/65	293/28/78
N3CZ	0/0/0	3/3/3	49/13/29	180/22/63	121/24/57	160/21/58
DK3UW	77/4/27	187/10/40	159/12/42	122/12/38	113/16/40	155/21/38
HB9HWI	15/3/10	65/5/33	66/10/41	71/19/62	135/23/69	148/23/54

WORLD MULTI-OPERATOR SINGLE-TRANSMITTER

High Power

TKOC	438/21/80	1260/30/101	2070/34/132	2050/38/135	2437/38/147	2630/37/145
UP2L	188/14/58	925/28/94	2117/35/135	1630/37/134	1762/38/139	1768/37/140
ZF1A	223/14/44	465/21/75	2239/37/131	1934/38/134	1938/38/136	2463/38/141
ES9C	133/21/74	651/31/103	1680/36/138	2191/37/135	2158/38/143	1987/38/146
PJ4A	140/11/33	354/20/68	1752/36/131	1366/38/132	1415/38/137	2268/38/130
TM6M	139/16/63	754/27/96	1632/36/135	1488/38/138	1802/38/143	1988/38/140
W2FU	91/16/54	658/24/92	1258/38/133	1220/38/140	1104/38/141	1924/37/142
VE3EJ	181/16/52	820/22/86	1595/34/131	1212/38/133	1334/38/140	1579/38/138
IO4X	62/15/60	529/29/100	1730/36/132	1669/37/141	1672/37/141	1695/39/140
9A1P	83/15/60	596/26/93	1673/37/132	1653/38/140	1575/38/141	1725/37/143
			Low P	ower		
_		/ /				
VP5M	132/9/21	506/19/66	1341/32/98	1330/38/109	1663/33/108	1563/34/116
IO6T	85/12/57	481/22/79	833/35/124	1128/36/132	922/38/130	992/35/124
E7CW	188/12/55	562/21/76	1052/32/114	747/36/125	898/38/130	846/36/122
IO3F	112/10/49	538/19/73	963/33/111	1030/36/116	941/38/127	817/35/122
EI8X	87/8/42	599/16/65	1063/24/88	1035/35/118	995/36/123	891/31/112
CT8/PA40	0/0/0	24/7/24	1126/22/94	1181/32/97	1303/33/109	1459/26/87
HD8CW	0/0/0	18/5/4	367/21/46	553/32/73	1464/34/94	1206/28/93
ZB2BU	0/0/0	255/9/43	538/18/63	1164/31/93	1012/30/92	1096/27/79
AG4TT	1/1/1	88/12/54	233/22/73	504/34/102	454/33/116	567/33/113
JT5DX	44/9/21	558/23/70	592/23/70	414/24/71	394/24/79	238/17/63

WORLD MULTI-OPERATOR TWO-TRANSMITTER

High Power

CR3A	209/16/61	1013/28/92	2983/36/126	2808/38/138	3931/38/140	4184/38/145
PJ4K	229/14/47	975/26/84	3028/36/128	3062/38/138	3515/38/143	3458/37/141
W3LPL	62/16/46	914/26/96	1988/37/131	1726/38/135	2341/39/147	2028/37/149
RU1A	206/23/75	1145/29/104	1810/38/137	2463/38/138	2887/38/146	2260/39/145
A60A	171/11/49	733/23/78	1679/33/120	1670/38/129	2108/37/132	2197/38/135
K9CT	62/14/35	353/22/82	1393/36/134	1708/38/135	1893/38/144	2067/38/149
9A5Y	264/15/64	1421/30/97	2033/36/125	1866/36/130	2176/38/137	2193/38/141
OH5Z	173/16/65	573/30/97	1841/38/138	2159/37/137	2376/38/142	1706/39/142
SK3W	294/20/72	994/29/101	1637/36/133	1805/36/133	2150/38/142	1795/39/139
IP2A	185/16/61	848/27/94	1754/36/131	1746/37/136	2080/38/138	1551/38/136

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

High Power

CN3A	517/16/66	1809/27/96	3463/36/137	4326/38/143	3841/39/150	3645/39/152
CR3W	503/15/64	1371/22/89	2853/38/134	4012/38/144	3187/38/146	2761/37/140
K1LZ	536/23/75	1322/26/102	2466/38/144	2723/38/143	2540/38/146	2608/38/145
KC1XX	414/20/71	1073/29/102	2370/38/141	2732/38/146	2601/38/147	3042/39/153
K3LR	214/21/61	1166/27/102	2448/38/143	2776/38/149	2589/39/150	2719/39/149
PJ2T	416/13/43	848/21/75	2460/33/112	2845/38/129	3453/38/136	2922/38/128
3B8M	85/14/41	501/27/68	1760/35/113	2814/39/140	3206/39/140	3293/39/145
9A1A	1094/24/85	1939/29/98	3075/37/138	3052/38/144	2514/38/141	2246/38/138
MGT	872/17/74	1969/27/100	3379/37/140	3305/38/137	2784/38/142	2112/38/141
LN8W	869/21/77	1864/31/103	2685/35/129	2968/38/142	2356/38/141	1834/39/142

Top Scores – WORLD

SINGLE OPERATOR HIGH POWER

All Bands

D4DX	(E77DX) 20,263,880
V47T	(N2NT) 15,957,608
ZF5T	(N5DX) 15,385,014
8P5A	(W2SC) 14,529,645
CR6K	(CT1ILT) 14,407,890
TO4A	(VE3DZ) 12,622,530
EF6T	(EA3M) 11,742,738
VE3JM	1
VY2TI	(K6LA) 9,586,640
RA9P	

28 MHz

ZO MHZ
ZD7VJ (5Z4VJ) 2,498,472
PW2E (PY2ZEA) 1,199,875
PP4T (PY4BZ) 1,001,888
XE2X 957,750
K2SSS 891,613
JS6TSE (JM1UWB) 862,488
DMOA (DK3DM) 797,550
LX7I (DK9IP) 789,558
WA3A 779,456
GM5X (GM4YXI) 769,614

21 MHz

0
U
0
8
6
6
2
9
2
6
6

14 MHz

ZD7W (W6NV) 1,717,428
N2MF 1,015,740
VP2EBB (GU4YOX) 934,185
JJ0VNR 836,280
E70T 756,912
JA7FTR 592,116
OK5D (OK1DTP) 480,246
JA7NVF 424,350
DA1DX 382,122
9M8YY (JR3WXA) 294,190

7 MHz

4L2M	538,272
JA6SHL	409,851
WF2W	360,460
II2T (IZ2EWR)	308,598
R4SA	236,717
RW9QA	189,865
NOTT	173,400
UC7A	169,037
G7C (MOCKE)	132,936
к9сј	131,826

3.5 MHz

SP5ELA		150,995
W3BGN		119,538
HA4A (HA4FF)		118,660
LA0GE		69,624
W1HI		56,515
JA6LCJ		20,196
LZ5XQ		19,635
UA9FAR		13,455
RW3YA		12,220
ES3VI		. 8,950
1 0	MTT	

1.8 MHz

IPOA	(ISOJHQ)				68,888
VE3ZI			•		65,416
UZ6U	(UT5UGR)		•		48,216
VE3PN					27,048

HL5IVL24,516
N4XD21,840
RW9SW13,079
AG4W6,480
DS2JJV3,180
OE3SGU2,310

LOW POWER

All Band

V2 6K	(AA3B) .	 .14,	225,316
PZ5DX	(RA3CO)	 .12,	596,675
UB7K		 5,	995,240
NN7CW		 5,	376,672
Nlur		 4,	880,400
4X7M	(4Z4AK)	 4,	670,960
UW5Y	(US2YW)	 4,	316,039
LY4L		 3,	991,412
OR2F		 3,	617,158
OL5Y		 3,	556,638

28 MHz

5X1XA (G3XAQ)	.830,664
NP3A	.822,325
KH0/4Z5LA (4Z5LA) .	.808,210
VP2V/AA7V (AA7V)	.657,342
VR2T	.599,670
WP3Z (WP4TZ)	.574,920
АН6КО	
KH0/WH2JA (JR3RIU)	.561,964
6Y6N	
S50A	.484,428

21 MHz

EA8KR
J35X
KH6AQ401,000
W1QK
JR3EOI
NP3YL (KP4JRS)292,600
GW4J (GW0ETF)271,932
K40AQ264,550
EA2KV193,800
OK2VWB171,180

14 MHz

I 4 MILZ	
CT1GFK404,02	8
DL9ZP249,36	6
OG9E (OH9HDH)173,97	8
VR2NC145,20	0
YT7BA139,59	0
LZ2PS130,04	8
GJ2A (MJ0ASP)113,60	8
OZ7BQ99,41	2
YO8AXP	6
OM5TX	6

7 MHz

4Z5PN OE3WM YU7WW CO2JD	Α.	• •	 	 •••	•	• •	•	.2 .2	93 64	, 5 , 0	71 61
HI 3A											
e7aa	(E	70	Y)					.1	74,	, 6	15
IP8T				 				.1	63,	, 6	60
ОК2НВ	R			 				.1	19,	, 1	30
IV3EA	D			 				.1	12,	, 8	75
UA 6AK				 				. 1	07,	, 8	14

3.5 MHz

	0.0	
OL5J		 89,052
SN7J (SP	7JYM)	 81,816
CO2AN		 78,408
SP4AWE		 56,950
OK1DJS		 44,625
HB9CPS		 42,395
YU1RK		 37,050
OK1AGE		 34,632
s57x		 26,260
W0UO		 25,862

	1.8 MHz	
9A2A.T		33 120

9A2AJ
LC9X (LA9XGA) 14,150
DL6KWN
OK1AUC 2,624
SP7MOQ 2,200
OH1MAR 1,904
SP4KVA (SP4GHL) 1,827
IT9BOR 1,364
JE1SPY 1,276
II1R (IW1CBG) 924

QRP

All Band

404A	2,251,656
KR2Q	1,745,928
LY9A	1,503,488
IZ3NVR	1,340,688
DK7HA	1,146,058
W1FJ	987,088
DFOBV (DL1MA	J) 754,605
ND0C	695,224
JR4DAH	678,645
JH10GC	676,918

28 MHz

4F30M	95,460
US5VX	84,693
KV8Q	73,440
N8LJ	65,960
R6KEE	58,144
EA8AQM	55,926
XE1CQ	55,298
LW9EKA	52,514
LY1DZ	51,128
R9RA	48,884

21 MHz

KOAV 1	65,066
JQ1NGT 1	
JR1NKN	56,160
LZ2RS	51,040
SM0GNS	45,630
JR2EKD	39,421
UA9FGJ	34,740
BA4WI	32,802
Y09RIJ	20,043
YB1IUQ	19,404

14 MHz

L32,703
47,975
45,140
38,628
19,740
18,468
17,360
13,806
12,876
12,480

7 MHz

OK 60K	75,576
IW3ILM	28,272
VK2CCC	21,462
N2JNZ	18,172
M3F (G3WZD)	15,458
LZ3AW	14,912
KP4PUA	
ON4ANE	. 9,646
JR1ABS	. 9,389
LA6CDA	. 8,976

3.5 MHz

S53AR
DL2SAX 24,060
YO8RIX
YO4BEW
UT5UUV 4,410
RT5R1,711

JH1APZ									736
JA5NSR									286

1.8 MHz

DL1AOB						6,	946
LY4T						6,	845
UROFF .						1,	815
4L7ZS .							147
IZOORT							144

SINGLE OPERATOR ASSISTED

HIGH POWER

All Bands

P3X (5B4AMM) .	 . 1	7,	231	,388
K5ZD		 . 1	з,	794	,836
KP4AA	(KL2A) .	 . 1	2,	741	,666
P44W	(W2GD)	 . 1	1,	695	,042
OMOR	(OM3GI) .	 . 1	1,	459	,024
VA2WA		 . 1	1,	209	,042
KlZZ		 . 1	1,	085	,480
II2Q	(IK2PFL)	 . 1	0,	073	,382
KP2B	(NP4Z)	 	9,	706	,644
ED7W	(EB7A)	 	9,	624	,816

28 MHz

FY5KE	E (F6FVY) 2,102,730
LT3E	(LW8DQ) 1,437,660
4X6FF	
KV2K	(K2NG) 1,014,410
SN2M	(SP2XF) 959,192
YL2SN	4 924,367
9A5M	
OG7A	(OH6MW) 896,572
rk7a	(R3FA) 895,518
K9NW	

21 MHz

OH8X (OH6UM) 1,278,905
VE3KG 1,008,665
9A5D (9A3ID) 999,301
SN3A (SQ9UM) 969,496
9A5X 964,782
E77EA 934,914
EA1X 932,814
S50K 931,776
4x1MM 899,980
S57Z 889,616

14 MHz

OM7M	(OM2KI) 1,182,818
YT 3X	1,094,610
IP1M	(IZ1LBG) 1,070,977
OH8L	(OH8LQ) 962,286
IB9A	(IT9RBW) 906,224
HG5E	(HA1AH) 903,240
N800	
YT1A	
OG4Z	
OM2X	(OM2XW) 643,850

7 MHz

OK1Z	(OK1DKZ)	 	 883,224
KAlis	3	 	 855,525
OHOR	(OH2PM) .	 	 798,688
9A3J		 	 643,715
IP8A	(IZ8JFL)	 	 643,517
HG1G		 	 558,450
OL7D	(OK1DG) .	 	 543,212
DJOME	DR	 	 528,500
S53X		 	 526,932
OMOWF	۶	 	 519,042

3.5 MHz

R8TT 392,124
HA1TJ 348,234
SP2PIK (SP2MKT) 324,192
DF9LJ 269,991

OE8TED 254,625
HA8FK 200,914
I5MXX 171,402
R5WW 155,376
W3NO 155,040
YT4T 155,034

1.8 MHz

MW5B (G3WVG)	
YL3FT	
LYOUKR (UX6IZ).	
S51V	
S530	
8S0DX (SM0DSG).	
9A3JH	
9A2KD	
YT0A	53,331
OG3B	42,947

LOW POWER

All Bands

28 MHz

PP5RT 739,941
ES7GN 545,337
N4AO (WC4E) 544,431
VE1ANF 543,466
K2SG 521,763
VE9AA 516,384
VA3FF 499,216
RA9AP 492,912
EA1R 489,978
9Z4Y 488,160

21 MHz

FY5FY 1,577,030
FR8UA 623,350
N3UA 582,205
CT7BJG 455,855
E73B 398,898
M5W (M0HMJ) 387,444
E70X 357,520
G8P (G4CLA) 352,916
UN8PT 351,734
JE1CKA 315,570

14 MHz

EA8/OK6RA (OK6RA) 1,443,240
EA3IN 438,340
9A1AA 408,618
\$52W 324,837
YU5M 298,000
SN6S (SP6ZC) 258,217
LY5I 243,386
4X1VF 242,649
N4IJ 228,384
EW1TZ 224,850

7 MHz

R7NW	607,990	C
HG9X (HA9AX)	280,840	C
HA8IB	278,53	5
HA6PJ	224,388	3
HA6NL	221, 392	2
ΥТ2В	210,30	7
YU1LA	210,012	2
DLOVV (DL6KWN)	187,92	9
HB9HTF	185,132	2
OM5ALL	170,79	6

3.5 MHz

PC3T 157,800
4Z4KX 142,044
OK2BFN 107,712
S51W 103,200

YO5AVN		 	 	97,064
LZ4T		 	 	93,900
HA7NK .		 	 	85,262
HA8WY .		 	 	81,356
EW1M		 •••	 	68,848
LZ1ZM .		 •••	 	67,956

1.8 MHz

HAOHV
HA8TKS
EA6SX16,592
YU1LD9,975
YL3GAZ9,798
DL1RNW8,178
LZ2ZG7,488
DM4MN3,145
OL6B (OK6AB)3,128
DL5ANS1,550

QRP

All Bands

DM2M (DK3WE)	2,878,254
DR3W (DL6MHW)	1,932,062
M1X (GOCKP) .	
HG50 (HA50B)	
M7R (GOTPH) .	
SQ2ICX	
K6JS	
N3CZ	
DK3UW	
HB9HWI	

28 MHz

M3A (MOUKR)	282,240
HA5PP	. 229, 758
вн4тох	166,738
LT7D	.163,880
DL1EFW	147,378
JA6VZB	128, 344
VR2VRC	123, 849
4L5P	.110,316
JK7DWD	91,200
ОМ7РҮ	81,168

21 MHz

HG1S	(HA1DAE)	334 695
EF3O	(EA30)	 .277,290
HA3JB		 .119,908
VK4KW	(VK4BAA)	 67,122
RT4W		 57,225
W3EK		 41,492
	к	
YB8RW		 4,194
4Z4UO		 3,625

14 MHz

OMORX
UR2Y (US0YW)227,680
S51Z109,101
LY4BF54,902
DL1FY
S51RW9,686
HB9FBG7,458
9A2VX6,350
JR1LLD
UT7AA3,266

7 MHz

,
S52P190,092
LY2F
DK1VD84,102
HA4FY
S58R70,658
UT3N (UT3NK)44,310
DL1YAW
EA3QP
MM8Z (GM7VSB)34,960
S52CQ

3.5 MHz

OK1FKD	41,875
SQ9MR	13,560
SNOR (SQ9IAU)	.2,822
RM3G	.2,233

UT7A (UT7AA)..... 999

1.8 MHz

OL1A 2	6,650
UR5FE0	4,366
Y08WW	3,813
IO5T (IK5TBK)	3,071

MULTI-OP

SINGLE-TRANSMITTER HIGH POWER

	uren i	
TK0C		20,011,292
UP2L		19,690,461
ZF1A		19,458,978
ES9C		17,153,120
PJ4A		16,765,364
TM6M		16,325,840
W2FU		15,789,133
VE3EJ		15,029,430
I04X		15,025,362
9A1P		14,476,500

LOW POWER

VP5M 10,178,066
IO6T
E7CW
IO3F6,711,832
EI8X
CT8/PA40 5,132,115
HD8CW
ZB2BU
AG4TT
JT5DX 2,840,994

MULTI-OP

TWO-TRANSMITTER

CR3A	39,345,152
РЈ4К	35,875,320
W3LPL	22,826,856
RU1A	21,367,400
A60A	19,131,458
К9СТ	18,035,250
9A5Y	17,215,783
ОН52	16,923,385
SK3W	16,519,410
IP2A	15,382,824

MULTI-OP

MULTI-TRANSMITTER				
CN3A	47,542,509			
CR3W	38,914,095			
K1LZ	32,142,632			
KC1XX				
K3LR	31,407,468			
PJ2T	29,915,232			
3B8M	27,856,920			
9A1A	26,301,312			
Мбт	25,527,062			
LN8W	23,010,624			

EXPLORER SINGLE-OP

HIGH POWER

OH2XX.	 	 • •	861,694 963,820
N6GQ	 	 	548,886 514,017 376,365
S53K	 	 	369,261 305,146
SP3WKW	 	 	290,780 241,264 217,674

EXPLORER MULTI-OP

HIGH POWER

RM9A.	 	 	19,	604,	673
OT7T.	 	 	17,	752,	098
PV2K.	 	 	5,	423,	837
YU1A.	 	 	4,	628,	890
DP5X.	 	 	1,	339,	470
RT4D.	 	 		572,	970

7E3E 348

ROOKIE

HIGH POWER

KC1TNO (YT3WA) 3,750,929
HA6KG 227,484
WN6A
SA3MGL 72,756
EA4HQV 3,066
AI5QK 1,776
YF3AJJ 1,387
KN6UDK 540

LOW POWER

BG0DLA 1,927,954
R8CI 852,012
KN6VQ
SO7NA 646,114
YL3NU 348,000
OM2ADM 300,271
PY7MM 215,760
HA5AX149,200
VE3RGO140,184
2E0JLZ 138,976

CLASSIC

HIGH POWER

VK9DX 4,679,520
P49Y (AE6Y) 4,596,600
OHOZ (OH6EI) 4,498,532
EA8RM 4,475,504
3B9KW (MOCFW) 3,573,276
9N7AA (S53R) 3,182,824
YT3D 3,174,000
W4CB (W2RU) 3,102,216
OE4A (DK6XZ) 3,049,680
К9МА 2,973,940

LOW POWER

9J2FI (DL2RMC) 2,325,102
N8II 2,049,200
KG9X1,804,978
S57Q 1,670,632
TA7I1,494,767
S52NR 1,475,622
3W9A (KU1CW)1,448,064
NOUR1,336,968
UW8SM 1,188,292
DJ3HW 1,058,064

YOUTH

HIGH POWER

D3.0D 0.0E7 000
RA9P 9,357,299
DL3ON 4,543,128
WIOWA (WOAAE) 4,270,440
DM7XX 304,876
R2BW 302,974
R2BFL 285,570
HA1KHJ (HA1TMP) 62,995
YC3CZV 12,150
W4IPC 11,450
HA3MAR 10,764

LOW POWER

DJ4MX .				 4,	66	7,	26	50
JG1ZUY	(J.	J1AI	IS)	 1,	71	9,	81	6
DL7PIA				 1,	43	9,	91	.1
WV4AM .				 	87	6,	41	8
VE 30MV				 	35	8,	38	35
YO80LY				 	28	2,	33	38
BI4QKE				 	27	Ο,	64	18
S52KJ .				 	24	2,	26	52
PY2POA				 	13	6,	68	31
SV8SYK				 	11	2,	94	14