

Results of the 2021 CQWW DX SSB Contest

For me, working the world with 5 watts and a low dipole is only possible during a CQ WW weekend! – Jan, PG2AA.

BY JOHN DORR*, K1AR

Well, the 73rd running of the CQWW SSB contest is complete! There are very few contests with that legacy. Of greater note, however, is that the WW's popularity rose to all-time highs this time around. Having received 9,801 logs — a new record — nearly 1/3 of your submissions were received in the first 24 hours after the contest. Perhaps more amazing is that a staggering total of 4,313,558 QSOs were reported, representing an average of 440 QSOs/log. We have a lot to celebrate this year.

In the end, however, one of the best ways to measure popularity is in the comments you send to us. We literally receive thousands of emails, social media posts, and soapbox experiences from around the globe each year. The vast majority of your feedback praised the return of high-band conditions. Our patience paid off this year as propagation finally cooperated. Here's a just a few examples:

It felt like the good old days with 40M, 20M, and 15M packed with loud European callsigns and significant signs of life on 10M. It will only get better! – VC3X.

Wow, what a change from previous year! Great improvement in the numbers of worked zones and countries ... – XE2B.

We achieved our goal of giving three rookies and new members of the club a taste for contesting and great conditions. We let them make use of most of the good openings (Solveig, JW5MUA; Kine, JW5IUA; and Joern, JW5LUA). Our Spanish visitor, Javier, EA1HEO, also significantly contributed. Old hands were JW6QIA Peter and JW6VDA Tom. Great fun as always! – JW5E.

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Years of friendship and lots of hard work yield results from PJ4K!

Perhaps of equal significance was the fact that the impact of COVID isolation began to subside. While contest DXpedition travel was still down, many of the multi-ops returned to the playing field. It was great to hear the large contest stations from around the world come back to life as well as a number of traveling contesters — both single operators and multi groups.

So, with a lot to report, let's get to the results.

How About Those Results!

Well, I predicted last year that the 2021 CQWW would be even better! And, by nearly every metric (logs received, hours operated, number of active multipliers, total QSOs in contest, etc.), that turned out to be true.

The world Single Operator race was dominated again this year by Juan, EA8RM, at 13.4 million (M), a score almost identical to last year — logging 8,173 QSOs. Juan's closest competitor was accuracy champion (See Table 4) Yuri, VE2IM (VE3DZ) who was nearly 4M points behind.

The U.S. Single Operator rankings were led this time around by Bob, KQ2M, with an impressive score of 6.7M dethroning Randy, K5ZD, who posted a respectable 6.3M while operating with a single radio in the Classic overlay. It took 4.3M to make it into the Top-10 this time around as was demonstrated by AB3CX's fine score.

Amongst the World QRP crowd, Willy, UA9BA, destroyed the competition with a huge 1.1M result, almost three times larger than his closest competitor, Vitas, LY5G. Working almost 1,100 QSOs from central Asia is something to marvel at by everyone.

There was a much closer horserace with the World Single Operator Assisted group as Sergio, PT5J (PP5JR) bested John, P4ØW (W2GD) by only 38,000 at about 12M. As an aside, the 2021 P4Ø operation by W2GD was his 156th trip to Aruba over 36 years beginning in 1986.

The single-band rankings demonstrated just how much propagation has improved as D4L (IZ4DPV) scored an amazing 2.4M (4028 / 36 / 136) on 10

meters. In sharp contrast, last year's winner (PY2YU) only made a winning score of 625 thousand (K) with E77A coming in second at 174K. It took a 431K score by CA4PSH to make the Top-10 this time around.

The multi-operator universe returned in force with P33W continuing their dominant multi-single position at 22M, beating #2 TM6M by almost 8M points. The emerging PJ4K team took the Multi-Two honors at 24.9M with perennial competitor, PJ2T, beating out the team at K3LR with a final score of 29.9M.

The popularity of overlays continues to grow as there was significant participation in both the Classic and Rookie categories. In the end, Yuri, VE2IM (VE3DZ) grabbed the top spot for his Classic overlay entry at 5.2M. Darko, YU3DKO, posted a leading Rookie score of 1.7M in the high-power group — very good work for a new contestant.

Aljaz, S55AL's, 400K score within the low-power Rookie participants was equally notable.

Speaking of overlays, this year's results include two new categories: Youth and Explorer. With a combined group of nearly 150 entries, there were a number of first-time submissions, as SO9I (SQ9ORQ – High Power) and DJ4MX (Low Power) won the Youth competition. While the Explorers were led by 9G5FI (Single Operator) and SX2I (Multi-Operator). It's going to be exciting to watch these overlay categories flourish in the years to come as the young guns and mad scientists show us what they can do.

The World is at Our Fingertips in the CQWW!

While we are still significantly below the numbers of the last decade, I'm happy

Table 1

Year	# Entities Worked
2013	236
2014	235
2015	232
2016	224
2017	202
2018	199
2019	215
2020	193
2021	205

Table 1. Total number of entities submitting logs in the 2021 CQWW SSB Contest and previous years.

to report that global activity is increasing again in the CQWW with a 6.2% increase in total worked entities this year (See Table 1). Of course, the contributing factors are both reduced travel restrictions and improved conditions.

2021 CQWW DX SSB PLAQUE WINNERS AND DONORS

SINGLE OPERATOR

- World**
Juan Hidalgo, EA8RM
 Donor: Southern California DX Club
- World – Low Power**
VP9I (Opr.: Jeff Kinzli, N6GQ)
 Donor: Slovenian Contest Club
- World – QRP**
Willy Umanets, UA9BA
 Donor: Jeff Steinman, N5TJ
- World – Assisted**
PT5J (Opr.: Sergio Almeida, PP5JR)
 Donor: Chick Allen, NW3Y
- World – Assisted Low Power**
WP3C (Opr.: Yuri Rakushchynets, N2TTA)
 Donor: Gail Sheehan, K2RED
- U.S.A.**
Robert L. Shohet, KQ2M
 Donor: Potomac Valley Radio Club – KC8C Memorial
- U.S.A. – Low Power**
Terry Zivney, N4TZ
 Donor: North Coast Contesters
- U.S.A. – QRP**
Randy M. Shirkbroun, ND0C
 Donor: Pat Collins, N8VW
- U.S.A. – Assisted**
Charles D. Fulp, K3WW
 Donor: John Rodgers, WE3C
- U.S.A. – Assisted Low Power**
Jim Bowman, KS1J
 Donor: LA8W / LN8W & LA Contest Club
- U.S.A. Zone 3**
ND7K (Opr.: John Colyard, W4IX)
 Donor: Northern California Contest Club
- U.S.A. Zone 4**
George Fremin, III, K5TR
 Donor: Kansas City DX Club
- Europe**
DM6V (Opr.: Felix Kuntzsch, DL7FER)
 Donor: Potomac Valley Radio Club – W4BVV Memorial
- Europe – Low Power**
OK6T (Opr.: Martin Bohadlo, OK1WCF)
 Donor: Tim Duffy, K3LR
- Europe – QRP**
Vitas Krasnickas, LY5G
 Donor: Steve "Sid" Caesar, NH7C
- Europe – Assisted**
Jon Zumalabe, EA2W
 Donor: Martin Huml, OL5Y

Europe – Assisted Low Power
TM3Z (Opr.: Dimitri Cosson, F4DSK)
 Donor: HB9NE Doubts Contest Group

Africa
Antonio Betancor, EA8BQM*
 Donor: Chris Terkla, N1XS

Asia
Oleg Shevtsov, RM9I
 Donor: Nodir Tursun-Zade, EY8MM

Caribbean / Central America
KP2M (Opr.: Phillip Allardice, KT3Y)
 Donor: John Rodgers, WE3C

Caribbean / Central America – Low Power
Ted Jimenez, HI3T
 Donor: Albert Crespo, NH7A

Oceania
KH7M (Opr.: Jim Neiger, N6TJ)
 Donor: Barbara Yasson, AC7UH

South America
Roberto Ramirez, CE3CT
 Donor: Yankee Clipper Contest Club

Canada
CF3A (Opr.: Ron Vander Kraats, VE3AT)*
 Donor: Contest Club Ontario – VE3WT Memorial

Indonesia
Yana Koryana, YB1AR
 Donor: Karsono Suyanto, YB0NDT

Japan – High Power
Masa Okano, JH4UYB
 Donor: Rush Drake, W7RM Memorial

ASEAN (XZ, HS, XW, XU, 3W, 9M, 9V, V85, YB, DU) – High Power
DY1T (Opr.: Thelma C. Pascua, DU1IVT)*
 Donor: YB Land DX Club

ASEAN (XZ HS XW XU 3W 9M 9V V85 YB DU) – Assisted
Tim Seed, DU3TW
 Donor: Champ C. Muangamphun, E21E1C – Siam DX Group

SINGLE OPERATOR, SINGLE BAND

World – 28 MHz
D4F (Opr.: Massimo Cortesi, IZ4DPV)
 Donor: Joel Chalmers, KG6DX

World – 21 MHz
D4Z (Opr.: Piotr Majchrzak, SQ9D)
 Donor: John Rodgers, WE3C

World – 14 MHz
CR3A (Opr.: Rastislav Hrnko, OM3BH)
 Donor: North Jersey DX Assn. - K2HLB Memorial

World – 7 MHz
UP4L (Opr.: Valeriy Zhilyayev), UN7LZ)
 Donor: Fred Laun, K3ZO – K7ZZ Memorial

World – 3.7 MHz
IS0/OM2TW (Opr.: Richard Gasparik, OK8WW)
 Donor: Family of Fred Capossela, K6SSS

World – 1.8 MHz
OK7W (Opr.: Stanislav Kostal, OK1CID)
 Donor: OL7M Contest Group, QRO.cz, RemoteQTH.com

U.S.A. – 28 MHz
Jeff Stuparits, W4DD
 Donor: John Rodgers, WE3C

U.S.A. – 21 MHz
Peter Blizewicz, KU2M
 Donor: 11 PM Dayton Pizza Gang

U.S.A. – 14 MHz
Ed Parish, K1EP
 Donor: Yankee Clipper Contest Club – KC1F Memorial

U.S.A. – 7 MHz
Dan Handa, W7WA
 Donor: Chuck Dietz, W5PR

U.S.A. – 3.7 MHz
Bud Governale, W3LL
 Donor: John Rodgers, WE3C

U.S.A. – 1.8 MHz
Stephen Werner, AG4W
 Donor: South Texas DX & Contest Club (STDXCC)

Europe – 28 MHz
E7AA (Opr.: Slaven Galic, E77A)
 Donor: John Rodgers, WE3C

Europe – 21 MHz
CR6T (Opr.: Antonio Rui Sousa Santos, CT1ESV)
 Donor: OH-DX-Ring, OH2AM – OH2SB Memorial

Europe – 14 MHz
UA2FW (Opr.: Alex Onov, RW4WR)
 Donor: Charles Wooten, NF4A

Europe – 7 MHz
Ivo Jereb, S57AL
 Donor: Central Texas DX and Contest Club – NT5C Memorial

Europe – 3.7 MHz
Ariel Vazquez, EE3M*
 Donor: Friend of Klaus – DJ4PT Memorial

Europe – 1.8 MHz
SN7D (Opr.: Mateusz Pigon, SQ7D)*
 Donor: Robert Kasca, S53R

Caribbean / Central America (7 MHz)
V31XX (Opr.: Bill Kollenbaum, K4XS)
 Donor: Nate Moreschi, N4YDU

Oceania (28 MHz)
VK4A (Opr.: Andrew Munson, VK4NM)
 Donor: Bruce D. Lee, KD6WW

Table 2

Category	AF	AS	EU	NA	OC	SA	ALL	% of total
ALL_H_A	5	90	548	692	37	47	1419	21.3%
ALL_H_U	6	143	346	393	58	27	973	14.6%
ALL_L_A	5	83	611	347	28	59	1133	17.0%
ALL_L_U	10	256	1190	697	172	108	2433	36.5%
ALL_Q_A		6	18	5	2	1	32	0.5%
ALL_Q_U		15	75	23	9	3	125	1.9%
EM			7	1			8	0.1%
ES	1		3	3		2	9	0.1%
M2	1	19	39	23	6	6	94	1.4%
MM		8	22	19	3	3	55	0.8%
MSH	5	28	132	50	8	10	233	3.5%
MSL	1	25	72	22	13	10	143	2.1%
ALL	34	673	3063	2275	336	276	6657	100.0%
% by Continent	0.5%	10.1%	46.0%	34.2%	5.0%	4.1%	100.0%	

*Single band entries not included in analysis.

Table 2. Received 2021 CQWW SSB Logs by Entry Class

Asia (21 MHz)
Alexander Krayzman, 4Z4AK
Donor: DFW Contest Group – W5PG Memorial

OVERLAY CATEGORIES

World – Classic
VE2IM (Opr.: Yuri Onipko, VE3DZ)
Donor: John Rodgers, WE3C

U.S.A. – Classic
Randy Thompson, K5ZD
Donor: BeLoud.US

Europe – Classic
Helmut Heinz, DK6WL
Donor: Steve Cole, GW4BLE Memorial

Asia – Classic
Yuri Kurinyi, RG9A
Donor: Willy Umanets, UA9BA

Japan – Classic
Koetsu Sato, JH7QXJ
Donor: Hajime Kato, JO1RUR

World – Rookie
Darko Vukojicic, YU3DKO
Donor: Tim Duffy, K3LR – N8SM Memorial

U.S.A. – Rookie
John Schroeder, K4QQG
Donor: Tim Duffy, K3LR – K3TUP Memorial

Europe – Rookie
Roberto Ursino, IU0OV8*
Donor: EA Contest Club

World – Youth
SO9I (Opr.: Przemyslaw Balcerzak, SQ9ORQ)
Donor: YOTA Camp

North America – Youth
Axel W. Bruderer, K16RRN
Donor: Neil Rapp, WB9VPG

Europe – Youth
Ivan Zivcic, 9A2Z1*
Donor: IARU Region 1 Youth Working Group

South America – Youth
Nicolas Ribeiro Batistuti, PY2IG
Donor: IARU Region 2 for YOTA

Africa – Youth
No entries
Donor: IARU Region 1 Youth Working Group

Asia – Youth
JE2YRB (Opr.: Masahiro Tajima, JL8XSO)
Donor: YOTA Japan

Oceania – Youth
Karunya Saka Lestianto, YD2UWF
Donor: IARU Region 3

Explorer – Single Operator
9G5FI (Opr.: Tom Hitzner, DL2RMC)
Donor: Worldwide Radio Operators Foundation

Explorer – Multi Operator
SX2I (Oprs.: SV2AEL, SV2BFN, SV2BXZ, SV7CLI, SV2GJV, SV2HTI, SV2HXV, SV2HXX, SV2JAO, SV2MHF)
Donor: Worldwide Radio Operators Foundation

MULTI-OPERATOR, SINGLE TRANSMITTER

World
P33W (Oprs.: RA3AUU, UA4FER, R3DCX, LZ2HM, R4FO, RK4FD, 5B4AIF, RN3QO)
Donor: Southern California DX Club – W6AM Memorial

World – Low Power
FY5KE (Oprs.: FY5FY, F1HAR, F4CWN, F5HRY, F5UII)
Donor: Tennessee Contest Group

U.S.A.
KC1XX (Oprs.: K1QX, KC1XX, KM3T, N1EZ, W1FV, WA1Z)
Donor: Carolina DX Assoc. – Ted Goldthorpe, W4VHF and Ken Boyd, K4DXA Memorial

U.S.A. – Low Power
W1QK (Opr.: W1QK, NG1R)
Donor: KZ5DX – DX HOGS

Africa
CQ9T (Oprs.: CT3HF, CT3KN, CT9ABC, CS9ABE)
Donor: WRTC 2022

Asia
4X1DX (Oprs.: 4X6FR, 4X1DX)*
Donor: Willy Umanets, UA9BA

Europe
TM6M (Oprs.: F1AKK, F1UVN, F4DXW, F4FDA, F4FFZ, F8DBF, F8FKJ)
Donor: Gail Sheehan, K2RED

Europe – Low Power
ED7O (Oprs.: EB1TR, EC1A, EC7MA, EA7EU, EC5AN)
Donor: EA Contest Club

Oceania
VK6N (Oprs.: VK6SJ, VK6VY, VK6NU, VK6MIT, VK6LIN, VK6BAP, VK6ML, VK6MAN, VK6BEC)
Donor: Junichi Tanaka, JH4RHF

South America
PJ4G (Oprs.: K2NNG, K4NHV, K08SCA, PJ4NX)
Donor: Victor Burns, K16IM – The Cuba Libre Contest Club

Caribbean/Central America
ZF1A (Oprs.: NN1C, K1XM, KQ1F, K8JO, K7ZO)
Donor: Bob Raymond, WA1Z

Canada
VE3EJ (Oprs.: VE3EJ, VE3EK, VE3MM, VE3OI)
Donor: John Sluymer, VE3EJ

Japan
JA7ZFN (Oprs.: JA7NLF, JG7PSJ, JH7XMO, JP7DKQ, JA1CTB)
Donor: Arizona Outlaws Contest Club

ASEAN (XZ, HS, XW, XU, 3W, 9M, 9V, V8, YB, DU)
E2A (Oprs.: E25KAE, E24OYI, E29TGW, E20NKB, E21EIC)
Donor: Bruce Frahm, K0BJ

MULTI-OPERATOR, TWO TRANSMITTERS

World
PJ4K (Oprs.: DL8OBQ, K1XX, K3CT, N3RD, N4RV, N6KT, N7ZZ, PJ4DX, WA3LRO)
Donor: Array Solutions

U.S.A.
W3LPL (Oprs.: W3LPL, W3IDT, K3MM, N3QE, K3RA, WR3Z, KD4D)
Donor: Kimo Chun, KH7U & Mike Gibson, KH6ND - Dan Robbins, KL7Y Memorial

Europe
ES9C (Oprs.: ES1BVG, ES2ADO, ES2GW, ES2MC, ES4BO, ES5HTA, ES5QA, ES5RY, ES5TV, ES6QC, ES7GM, UR0MC, US2YW, UW7LL, YL3DW, YL3JA)
Donor: D4C Monteverde Contest Team – IR4X Monte Capra Contest Team – 14EAT Memorial

South America
HD8R (Oprs.: EA1SA, EA5RM, EA7X, F2JD, F5CWU, F8ATS, IK5RUN, IN3ZNR)*
Donor: Worldwide Radio Operators Foundation

Japan
JR8VSE (Oprs.: JR8VSE, JE8KIX, JN2FCL)
Donor: Yokohama DX Club (YDXC)

ASEAN (XZ, HS, XW, XU, 3W, 9M, 9V, V8, YB, DU)
7A2A (Oprs.: YB1TJ, YB1RKT, YB2DX, YB2XVT, YB3KM)
Donor: Champ C. Muangamphun, E21EIC – Siam DX Group

MULTI-OPERATOR, MULTI-TRANSMITTER

World
PJ2T (Oprs.: W0CG, NN3W, KL2A, G4BVG, G4XUM, M5RIC, K8PGJ, N2BA, ND8L)
Donor: Dave Leeson, W6NL & Barb Leeson, K6BL

U.S.A.
K3LR (Oprs.: N2NC, N5UM, K3LR, N9RV, W2RQ, K3LA, N2NT, K1AF, N3SD, AA5B, K3UA, N3GJ, N3RA, WM2H)
Donor: Jim Lawson, W2PV Memorial

Europe
M6T (Oprs.: G0AEV, G0JJG, G0VJG, G0WCW, G2NF, G4ADM, G4BUO, G4MJS, G4PIQ, G4TSH, G7TWC, M0BCT, M0HKB, M0MDR, M0TGV, PT2F)
Donor: Finnish Amateur Radio League

CONTEST EXPEDITIONS

World – Single Operator
A47RS (Opr.: Efsthios Mallakis, SV5DKL)
Donor: National Capitol DX Association - Stuart Meyer, W2GHK Memorial

World Multi-Op
PY0F (Oprs.: PT2IC, PY4AZ, PY6RT, PY7RP)
Donor: Gail Sheehan, K2RED

*Awarded to second place finisher

Will there be bigger numbers to come? I say that's a safe bet. There's more than one group setting their sights on working 200 countries on a single band. Will it ever be done?

Pick a Category, Any Category

There's good news this year. The number of multi-op entries — a wildly popular group of categories — was significantly higher (See *Table 2*). While the pandemic continued to keep many operators at home, we experienced a year-over-year increase of 140 multi-op entries (36%) spread equally across all categories. Was there pent-up demand to get back together? You bet there was!

How Many Hours Did You Operate in the CQWW?

Well, you had to admire consistency. Last year's analysis showed that the medium number of hours operated in the CQWW SSB contest for single operators was 10.5 hours. It turned out that this year's average is about the same (See *Table 3*) as about half of us are in this range (47.6%).

Looking at the data from another perspective, the single operator group invested an approximate cumulative total of



Juan, EA8RM, the SOAB champion has over 13 million reasons to be smiling!

2021 CQWW DX SSB TOP SCORES

<p>WORLD SINGLE OPERATOR HIGH POWER All Band</p> <p>EA8RM13,431,245 VE2IM (VE3DZ)...9,717,785 CF3A (VE3AT)...7,994,096 KQ2M6,729,076 K5ZD6,311,403 RM9I5,994,040 C4W (5B4WN)...5,883,312 VY2TT (K6LA) ...5,704,800 K4ZW5,661,114 N1UR5,410,820</p> <p>28 MHz</p> <p>D4F (IZ4DPV)...2,356,029 PY2YU1,764,828 CT9ABY (OM2KW).....1,148,189</p> <p>21 MHz</p> <p>D4Z (SQ9D).....2,414,968 CR3DX (OM3RM)2,296,170 P43A1,422,745</p> <p>14 MHz</p> <p>CR3A (OM3BH)...2,175,460 D4L (IK2NCJ)...2,023,580 UA2FW (RW4WR)1,236,576</p> <p>7 MHz</p> <p>UP4L (UN7LZ).....952,055 V31XX (K4XS).....936,258 S57AL861,606</p> <p>3.7 MHz</p> <p>ISØ/OM2TW (OK8WW).....331,655 CQ3J (CT3MD).....287,768 EE3M192,351</p> <p>1.8 MHz</p> <p>OK7W (OK1CID) ..118,548 SN7D (SQ7D).....77,376 NP2J (K8RF)41,796</p> <p>LOW POWER All Band</p> <p>VP9I (N6GQ)3,585,504 OK6T (OK1WCF).....2,121,010 HI3T1,791,049 N4TZ1,544,160 WW4XX (LZ4AX)...917,285 RG5A/6806,053 JH1EAQ788,322 IV3ZYB753,424</p>	<p>OK2MBP740,484 TI2JS699,489</p> <p>28 MHz</p> <p>EA8TX728,218 CS9/PD3EM465,500 CT3IQ330,786</p> <p>21 MHz</p> <p>ZW2T (PY2RKG)...464,264 PY2QT344,487 JF3BFS225,456</p> <p>14 MHz</p> <p>4L2M565,508 PY2NY425,111 TG9ANF203,228</p> <p>7 MHz</p> <p>4Z5UN259,787 LA2AB (SP2ASJ)...184,080 UT3UOR128,810</p> <p>3.7 MHz</p> <p>CO2JD82,709 OU8A (5PØO)64,032 W3LL49,329</p> <p>1.8 MHz</p> <p>SNØR (SQ9IAU).....29,264 SP6LUV27,528 OK1LRD23,618</p> <p>QRP All Band</p> <p>UA9BA1,151,712 LY5G426,408 LZ1DM389,628 JH1OGC241,824 NDØC230,426 K8ZT198,276 UR5FEO190,938 PY2BN181,470 IZ4AIF168,525 HG6C (HA6IAM).....151,074</p> <p>28 MHz</p> <p>VR2T (VR2ZQZ)...237,075 4I1EBC60,610 LZ2RS26,650</p> <p>21 MHz</p> <p>F8AKS102,276 YBØSSF57,681 TA2IB56,960</p> <p>14 MHz</p> <p>YU1NR44,700 USØMS43,008 HF5WIM31,428</p>	<p>7 MHz</p> <p>LY2NK20,301 DL1BAX16,491 PG2AA11,183</p> <p>3.7 MHz</p> <p>OL4W (OK1IF).....13,248 UT4UBZ3,569 IZ5OVP1,260</p> <p>1.8 MHz</p> <p>HA1TI5,904 HF7A4,104</p> <p>ASSISTED HIGH POWER All Band</p> <p>PT5J (PP5JR) ..12,001,288 P4ØW (OM3GD).....11,959,017 EA2W8,470,308 KH7Q (KU1CW)7,925,904 OMØR (OM3GI).....7,606,230 HG8R (HA8JV) ..7,565,566 ZF5T (K5GO/ ZF9CW).....7,533,535 SN7Q (SP7GIQ).....6,870,082 LY7Z6,706,524 R2QA6,182,145</p> <p>28 MHz</p> <p>CX2DK1,327,183 LU6ETB (LU7DW).....923,868 LR7D (LU9ESD) ..847,177</p> <p>21 MHz</p> <p>CQ3W (DF7EE)1,488,792 9Y4D1,454,184 DL2ARD1,452,752</p> <p>14 MHz</p> <p>DL6FBL1,774,600 OK7K (OK1BN) ..1,628,802 PP4T (PY4BZ) ...1,508,925</p> <p>7 MHz</p> <p>US1Q (UW2QU).....1,096,979 SN3A (SP3GEM) ..930,411 YU7XX (YT1X)734,240</p> <p>3.7 MHz</p> <p>OM6NM325,584 HA1TJ271,600 VE9CB253,240</p>	<p>1.8 MHz</p> <p>IZ51CH78,120 S56X65,860 GM4AFF64,425</p> <p>ASSISTED LOW POWER All Band</p> <p>WP3C (N2TTA) ..2,751,343 HI8RD2,320,782 TM3Z (F4DSK) ..2,221,184 HZ1TT2,206,676 KS1J1,832,124 UP7L (UN6LN) ..1,571,253 PA9M1,530,397 WE9R1,493,796 SQ6H (SQ6PLH)1,295,151 UA9R1,287,072</p> <p>28 MHz</p> <p>PY2EX639,850 ZV1T (PP1WW) ...557,056 WP4SD407,712</p> <p>21 MHz</p> <p>IK4LZH527,468 VY2CX385,728 EA8DED (OH2BP)297,000</p> <p>14 MHz</p> <p>PY4JW685,980 UR3GU477,318 HGØR (HAØNAR)441,842</p> <p>7 MHz</p> <p>VE2IDX (VE3ZF) ..359,840 OL9R (OK6RA) ...271,128 G8X (G4FJK)161,920</p> <p>3.7 MHz</p> <p>IH9/OK1M233,910 E73AA66,378 OK1AY53,208</p> <p>1.8 MHz</p> <p>S54ZZ46,926 OK6Y (OK2PTZ) ...35,100 YT8A34,112</p>	<p>SP5PDA177,731 YU1LM102,858 IZ1ANK95,520 OK1DMP81,620</p> <p>28 MHz</p> <p>YP8A (YO8WW) ..59,558 BA7CK22,843 SN5R (SP5XMU) ...9,882</p> <p>21 MHz</p> <p>HG3C (HA3HX)36,582 SV1NK26,257 KG1E14,022</p> <p>14 MHz</p> <p>EA5HJV265,392 EA3O138,880 RT4W53,466</p> <p>7 MHz</p> <p>OT6M (ON9CC)13,560 PD2JM5,856 KP3ER (NP3V)2,541</p> <p>3.7 MHz</p> <p>OMØA (OMØAAO)19,040 HF9CW8,695 SP5ES5,588</p> <p>1.8 MHz</p> <p>LY2OU6,004 YO8WW5,047</p>	<p>MULTI-OP TWO TRANSMITTER</p> <p>PJ4K24,916,506 ES9C18,602,780 EI7M18,472,050 HD8R17,996,120 CR6K17,546,958 PX2A15,951,068 IIS14,661,120 ED1R14,299,362 IR6T14,214,200 9A7A13,411,518</p> <p>MULTI-OP MULTI-TRANSMITTER</p> <p>PJ2T29,985,664 K3LR27,941,270 A73A24,902,052 M6T20,557,230 EW5A19,500,560 DFØHQ18,698,750 LZ9W18,465,060 YT5A17,055,180 KL7RA14,364,000 DP7D11,945,140</p> <p>EXPLORER Single Operator</p> <p>9G5FI3,401,025 RL6M1,254,829 K7RB123,690 W2MRD3,483 PY2MD1,320</p> <p>EXPLORER Multi Operator</p> <p>SX2I5,937,680 Z6ØA4,110,700 9H6A3,611,520 IQ4RN2,236,416 EE7K1,113,315 IB2C978,656 KP2B648,324</p> <p>ROOKIE High Power</p> <p>YU3DKO1,708,137 IØØVØB1,147,500 K4QQG686,092 AC3LZ468,666 IU1NKS364,181 9M2TDX363,312 ED2B (EA2ESB) ..263,822 W3MAM246,280 LX1LC233,264 W4SSF200,910</p> <p>ROOKIE Low Power</p> <p>S55AL399,966</p>
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Table 3

op hours	AF	AS	EU	NA	OC	SA	ALL	% of All	Cum. %
0.1-5	5	164	635	546	75	35	1460	23.9%	23.9%
5.1-10	2	135	655	537	64	60	1453	23.8%	47.6%
10.1-15	9	86	495	389	64	45	1088	17.8%	65.4%
15.1-20	4	73	363	287	41	41	809	13.2%	78.7%
20.1-25	2	60	326	178	31	29	626	10.2%	88.9%
25.1-30	2	35	141	88	18	16	300	4.9%	93.8%
30.1-35		21	87	76	10	8	202	3.3%	97.1%
35.1-40	1	8	43	35	1	6	94	1.5%	98.6%
40.1-45	1	9	38	18	2	4	72	1.2%	99.8%
45.1-48		2	5	3		1	11	0.2%	100.0%
ALL	26	593	2788	2157	306	245	6115		
Median hours	13.9	9.9	10.8	9.9	10.7	12.8	10.5		

Median time: 10.5 hours

Table 3. Analysis of Operating Times for 2021 CQWW SSB Contest Single-Op All Band entries

N3GT356,425 EA4HKF.....294,690 2W0LXX.....271,152 EA5IXO.....231,594 SP3DAT.....209,965 4H1EBD.....197,166 PU5DPL.....188,604 VA3IDD.....186,245 KC3QVQ.....175,032	KE8HBV97,865 YD2UWF76,076	28 MHz N8II170,558 W8TWA63,440 N1WRK.....44,354	14 MHz KV0Q454,905 K1JB302,784 N7DD263,835	21 MHz KG1E14,022 K2GMY8,084	ROOKIE High Power K4QQG686,092 AC3LZ468,666 W3MAM246,280 W4SSF200,910 KJ8H171,051 AA5H140,400 K7WXB81,450 KC3RDV38,280 N7RBL18,564 KX7TL11,900
CLASSIC High Power VE2IM (VE3DZ).....5,264,064 K5ZD4,784,670 RG9A4,162,044 UA9MA3,806,075 WH7T (WH7W).....3,739,392 K1DG3,392,264 S53MM2,726,595 DL2CC2,682,548 EA4KD2,414,192 CE3CT2,372,210	UNITED STATES SINGLE OPERATOR HIGH POWER All Band KQ2M6,729,076 K5ZD6,311,403 K4ZW5,661,114 N1UR5,410,820 K5TR5,006,144 W9RE4,845,002 K1DG4,665,320 K3ZO3,718,080 ND7K (@N6WIN).....3,036,215 K5GN2,978,531	21 MHz WA5SOG70,785 NF7E64,647 W8JGU62,208	7 MHz W9PA88,206 N9LR15,833 K2LE14,694	MULTI-OP SINGLE TRANSMITTER High Power KC1XX14,560,432 K1LZ7,849,968 NV9L5,978,412 K8AZ5,181,780 W2A4,345,230 W8PR2,805,115 K9RS2,783,231 KC3R2,729,090 N4SS2,666,122 K1KP2,470,404	Low Power N3GT356,425 KC3QVQ175,032 K1MWH135,744 K3KDX134,568 N3AML111,384 K4LEN110,400 W9TCV101,598 N8CWX55,900 KD9RPB53,010 K12D51,136
CLASSIC Low Power WW4XX (LZ4AX).....917,285 RG5A/6772,686 EA8TX716,078 OL5Y631,350 K1HT616,641 3G1D (XQ1FM).....560,028 UA3BL541,310 DJ3HW540,592 AC4G536,568 PA2TMS529,320	28 MHz W4DD252,416 W5PR219,744 K1WHS138,516	14 MHz K1EP159,936 WA7BNM59,843 WB2KHO35,721	3.7 MHz W3NO84,482 KN2M13,862 Al6Z2,139	1.8 MHz K5UR2,975	CLASSIC High Power K5ZD4,784,670 K1DG3,392,264 N2IC1,911,429 K3AJ1,569,067 K2SSS1,108,282 W1JQ1,006,542 W3KL996,130 K1RM984,718 KD7RF783,696 W4KW754,725
YOUTH High Power SO9I (SQ9ORQ).....5,263,831 9A2ZI2,326,753 JE2YRB (JL8XSO).....1,788,830 YU3AWA1,466,465 K16RRN1,409,580 DL3ON1,083,013 NT0K (K6BFL).....760,767 PY2IG563,563 KD9V224,238 DK5AV204,336	21 MHz K2ME705,962 K0EJ623,664 N4OX556,308	QRP All Band ND0C230,426 K8ZT198,276 W6QU (W8QZA).....113,373 N4WLL100,646 K4WY36,570 N8LJ35,200 W7FS20,384 N3CI11,480 W7LG7,750 N7JI6,579	ASSISTED LOW POWER All Band KS1J1,832,124 WE9R1,493,796 W3KB1,196,685 N4XL1,191,265 W1NT1,169,299 N3AAA618,184 WO1N515,520 W2YR476,392 KC1SQ429,275 AD1C421,940	Low Power W1QK1,396,395 W3ZGD611,340 W1FM591,374 WA1F483,218 NN6P345,800 KT4XA177,822 KT3T149,079 K4CBW64,170 AD4XT56,168 W8AJT41,100	Low Power WW4XX (LZ4AX).....917,285 K1HT616,641 AC4G536,568 N8II469,588 N7IR442,260 WA3LXD348,096 N0UR315,100 W6DVS262,548 K4DR214,376 N1DC204,670
YOUTH Low Power DJ4MX654,150 YP1EX (YO9LIG).....232,427 DL3MLA196,128 DB5DY180,752 SP5PDA177,731 OE9SEV164,424 YU3LAX113,600 N4WLL100,646	7 MHz W7WA442,382 K9CJ26,492 WD0BGZ24,273	ASSISTED HIGH POWER All Band K3WW5,592,496 W3PP (AA1K).....5,073,630 AA3B4,950,540 AB3CX4,703,658 K4AB4,046,868 N3RS3,999,816 N2SR3,772,240 W2MKM3,462,674 NW3Y3,426,947 KK6P (W7IV).....3,271,334	28 MHz K1MM475,344 WV4P191,352 WO4O177,480	21 MHz WW4LL479,100 NR4L259,992 W6PH214,650	Low Power W3LPL11,708,631 K1RX10,437,328 K9CT7,757,400 K1CC7,533,834 K2AX6,709,300 W2CG6,017,270 AA4VT4,324,023 W6YX2,986,284 NJ3I2,496,945 N7DX2,274,612
		ASSISTED QRP All Band K3WW5,592,496 W3PP (AA1K).....5,073,630 AA3B4,950,540 AB3CX4,703,658 K4AB4,046,868 N3RS3,999,816 N2SR3,772,240 W2MKM3,462,674 NW3Y3,426,947 KK6P (W7IV).....3,271,334	ASSISTED QRP All Band WB4OMM3,150 WO7T2,596 N6AN1,680 NO5V1,184	MULTI-OP TWO TRANSMITTER W3LPL11,708,631 K1RX10,437,328 K9CT7,757,400 K1CC7,533,834 K2AX6,709,300 W2CG6,017,270 AA4VT4,324,023 W6YX2,986,284 NJ3I2,496,945 N7DX2,274,612	YOUTH High Power K16RRN1,409,580 NT0K (K6BFL).....760,767 KD9V224,238
		ASSISTED QRP All Band WB4OMM3,150 WO7T2,596 N6AN1,680 NO5V1,184		MULTI-OP MULTI-TRANSMITTER K3LR27,941,270 K1TTT10,253,024 WX3B10,232,750 N1RR5,289,424 K3EST5,150,697 K1KI3,117,994 WA3EKL2,699,880 W3MF2,258,308 NE3F2,106,473 W1AW1,327,435	YOUTH Low Power N4WLL100,646 KE8HBV97,865 W8UA61,087 KE8RJU35,258 N8AJM12,551 W8MTB2,345

Table 4

Call	Cont	Cat	Raw QSOs
VE2IM	NA	High Power	6483
K5ZD	NA	High Power	3844
EA4KD	EU	High Power	2473
OK6T	EU	Low Power	2364
VC3X	NA	High Power	2334
FG5GP	NA	High Power	1412
R3OM	EU	High Power	1296
K6NA	NA	High Power	1229
OE1HNB	EU	Low Power	1185
UA9BA	AS	QRP	1083
DU7JAY	OC	High Power	1049
PZ5RA	SA	Low Power	1003

(99%+ callsign accuracy with >1000 QSOs)

Table 4. Most accurate 2021 CQWW SOAB Unassisted entries

78,500 hours of operating time in last year's WW. That equals 3,271 days or 62.9 years. Those numbers make me tired just looking at them. My advice is to keep this data to yourself (that's a hint to those of you with spouses or significant others).

There is Accuracy, Then There is ACCURACY!

We have amongst us an elite group of operators that regularly demonstrate outstanding skills, especially in log accu-

racy. Leading the pack was Yuri, VE2IM (VE3DZ) who only busted 14 calls out of 6,483 QSOs an error rate of 0.2%. This is in sharp contrast to the average for all logs of 1.8%. Randy, K5ZD, was not far behind with only 13 busted calls (0.3%). The remainder on this list (See Table 4) share in our well-deserved accolades. While there is a natural skill in achieving these results, the other key point is in how intentional each of these operators are in "getting it right." It takes work, concentration, experience, and even a little bit of luck. Congratulations to each of you.

Celebrating our Youth Operators

As reported earlier, we launched a new Youth Overlay category in this year's CQWW contest. The goal was simply to offer well-deserved visibility to the youngest operators (in our case, 25 years old or less) in our contest community and hopefully provide an incentive for more to participate. With over 100 logs received, I'm happy to report the initial launch was successful.

Not surprisingly, over half of the Youth logs came from Europe, who are leading the world in recruitment and growth. But, with entries from every major continent, the opportunity for future growth abounds. My thanks go to Philipp, DK6SP, and Luc, LU6FAM, who spearheaded this effort as well as the many new sponsors of CQWW Youth plaques (14 in total). Next year will be even better.

Some Thoughts from the Director

I'm happy to report that after hours of extensive log checking, using some of contesting's most advanced resources,

2021 CQWW DX SSB BAND-BY-BAND BREAKDOWN — TOP ALL BAND SCORES

Number groups indicate: QSOs/Zones/Countries on each band

WORLD SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
EA8RM	134/6/37	428/15/61	1309/25/84	1599/27/79	1434/26/82	3269/28/99
VE2IM	186/10/29	779/17/74	1472/27/91	2000/32/99	1624/26/103	3642/20/59
CF3A	217/10/34	661/17/58	969/26/95	1800/35/99	1255/26/100	485/19/64
KQ2M	28/9/23	422/15/65	372/22/75	1474/38/112	1527/29/96	653/21/73
K5ZD	63/9/31	240/14/61	300/21/75	1563/35/109	1160/31/102	493/18/75

WORLD SINGLE OPERATOR ASSISTED ALL BAND

PT5J	14/6/10	239/24/66	597/34/102	1365/38/115	1689/33/116	2327/31/116
P40W	58/8/17	442/18/71	1457/26/104	1150/31/95	1626/30/109	2096/26/78
EA2W	61/9/42	500/18/76	1113/30/104	1536/37/116	1505/38/117	977/34/100
KH7Q	15/10/8	168/24/32	1408/31/77	1338/36/98	2184/33/89	386/24/42
OM0R	171/9/48	577/19/80	1000/34/104	1093/36/107	1509/37/113	612/33/90

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

P33W	229/13/57	745/20/84	1634/35/114	2298/38/138	2577/39/136	2171/36/116
TM6M	172/9/46	481/20/86	1615/34/118	2208/38/130	2258/39/141	1111/34/113
KC1XX	45/11/43	719/22/92	1777/31/121	1468/37/131	1921/32/132	618/28/116
IR4X	50/8/49	679/19/94	1329/36/117	1512/38/137	2516/40/147	945/35/123
E7DX	129/10/62	799/21/88	1854/37/126	1654/39/139	2286/38/140	938/36/124

WORLD MULTI-OPERATOR TWO TRANSMITTER

PJ4K	155/14/33	1007/23/81	3057/29/110	1661/34/116	3982/32/113	2600/28/85
ES9C	523/14/65	1566/25/99	2205/37/126	2985/39/142	3529/39/150	1019/33/121
EI7M	370/12/57	1200/20/87	2183/33/115	2808/36/124	3245/40/136	1454/33/117
HD8R	10/7/7	588/22/51	1552/27/93	1630/34/105	3549/34/109	3023/29/102
CR6K	292/11/53	1048/20/91	2159/32/112	2677/38/136	2921/37/129	1744/29/114

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

PJ2T	196/13/31	1084/21/88	3027/33/122	2880/33/120	4195/35/119	3152/29/95
K3LR	600/16/60	888/25/94	2687/34/133	3259/39/148	3326/38/151	1577/31/120
A73A	252/8/48	789/19/73	2215/35/121	3017/37/133	3184/39/124	2263/35/114
M6T	664/10/58	2175/22/97	3905/36/135	2341/39/140	2008/38/133	1678/35/127
EW5A	981/15/68	1760/24/101	2696/37/127	3554/38/137	2451/38/139	1264/34/107

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
KQ2M	28/9/23	422/15/65	372/22/75	1474/38/112	1527/29/96	653/21/73
K5ZD	63/9/31	240/14/61	300/21/75	1563/35/109	1160/31/102	493/18/75
K4ZW	28/8/20	292/20/72	570/27/83	987/33/99	1041/28/102	576/21/69
N1UR	74/9/34	283/18/65	510/22/79	848/35/99	1051/26/98	608/21/74
K5TR	26/11/18	111/17/47	1004/28/74	815/34/87	1611/34/104	664/25/68

USA SINGLE OPERATOR ASSISTED ALL BAND

K3WW	40/10/28	221/15/71	395/27/91	1068/32/113	883/29/115	583/22/91
W3PP	45/10/29	196/18/71	156/26/79	994/36/110	1004/32/121	413/26/97
AA3B	33/7/20	272/16/73	421/24/87	739/32/110	860/27/106	498/27/101
AB3CX	61/9/32	252/18/72	270/27/91	773/34/104	663/27/111	578/25/91
K4AB	24/7/15	198/17/64	254/26/82	551/35/101	934/32/113	597/26/88

USA MULTI-OPERATOR SINGLE TRANSMITTER

KC1XX	45/11/43	719/22/92	1777/31/121	1468/37/131	1921/32/132	618/28/116
K1LZ	73/13/52	348/20/82	591/29/108	1375/36/116	1258/31/120	378/25/100
NV9L	17/8/16	336/19/70	338/30/99	814/35/116	1059/37/126	598/28/98
K8AZ	21/8/19	213/17/69	228/29/94	901/36/118	772/32/123	683/25/100
W2A	1/1/1	137/16/65	355/26/97	1177/35/114	906/28/113	84/22/83

USA MULTI-OPERATOR TWO TRANSMITTER

W3LPL	43/11/41	721/21/88	912/30/111	1601/38/131	1448/34/132	876/28/108
K1RX	63/10/31	436/17/80	1137/24/98	1942/36/123	1575/33/119	623/23/88
K9CT	31/9/15	312/22/65	732/31/99	1318/37/121	1504/36/132	693/30/103
K1CC	45/7/28	261/19/78	650/27/102	1223/34/120	1129/33/130	514/26/105
K2AX	47/9/29	236/17/70	242/27/90	1234/37/118	1033/31/120	827/26/102

USA MULTI-OPERATOR MULTI-TRANSMITTER

K3LR	600/16/60	888/25/94	2687/34/133	3259/39/148	3326/38/151	1577/31/120
K1TTT	211/12/45	536/22/87	1012/27/102	2141/37/129	1325/31/122	731/26/106
WX3B	38/8/20	470/19/78	534/28/95	2002/37/118	1800/34/118	975/24/92
N1RR	37/6/25	182/17/66	303/24/82	625/29/90	1772/26/105	436/23/76
K3EST	123/12/13	223/21/42	749/33/80	922/37/117	1182/34/98	708/26/60

the CQWW Contest Committee can declare that the overwhelming majority of log submissions are truthful and honest. Just to be clear, our primary role is to produce results that are accurate and reflect what really happened in the contest. Contrary to the opinion of a few folks, we do not set out each year to determine ways to disqualify competitors. In that context the results speak for themselves with only 13 logs eliminated from the results out of 9,801 received entries (0.13% of the total).

However, it is also noteworthy that each year there are a few logs that are reclassified — ranging from moves to Assisted or Checklogs. Sometimes this is done at the competitor's request; in other situations, it's to accommodate what we have discovered during the log checking process. It's important to note that some of this year's changes took place because requested audio recordings were not supplied, which is outlined in the rules. As a reminder, it will be very rare for us to ask for your recording. However, rather than view this rule as a punitive strategy, it can be a helpful tool for you — both in terms of confirming our analysis or providing self-discovery on ways to improve your operating skills.

On another subject, the CQWW continues to disallow self-spotting. While there appears to be a movement to allow this practice in other contests, we will likely maintain our position for the foreseeable future. Fortunately for all, the word is getting out that self-spotters will be caught, as the number of violators has significantly dropped in recent years. This is particularly true on CW, where the effectiveness of reverse beacon network (RBN) spotting has rendered the notion of self-spotting to be largely redundant.

EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
DM6V	51/7/29	494/12/54	859/23/73	1173/31/87	1106/29/75	734/26/60
EA3QP	59/6/26	400/11/51	779/19/62	1327/27/70	1314/25/66	1037/29/62
DK6WL	135/9/42	519/14/61	607/27/81	803/27/91	636/32/91	576/31/72
4O3A	23/4/15	183/7/41	840/29/88	690/26/73	1651/30/90	645/25/62
TM2Y	181/6/39	612/14/57	421/15/64	697/27/68	880/30/71	556/27/59

EUROPE SINGLE OPERATOR ASSISTED ALL BAND

EA2W	61/9/42	500/18/76	1113/30/104	1536/37/116	1505/38/117	977/34/100
OMOR	171/9/48	577/19/80	1000/34/104	1093/36/107	1509/37/113	612/33/90
HG8R	224/9/44	672/19/71	1071/32/95	1413/37/118	1188/38/117	561/33/105
SN7Q	137/5/38	437/18/73	560/29/91	880/33/107	1415/34/102	969/32/112
LY7Z	243/10/55	602/17/74	1189/38/117	1324/38/127	1243/38/128	307/31/86

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

TM6M	172/9/46	481/20/86	1615/34/118	2208/38/130	2258/39/141	11111/34/113
IR4X	50/8/49	679/19/94	1329/36/117	1512/38/137	2516/40/147	945/35/123
E7DX	129/10/62	799/21/88	1854/37/126	1654/39/139	2286/38/140	938/36/124
LZ5R	72/10/53	848/23/93	1793/36/121	2294/38/134	2051/38/138	1183/35/114
SP8R	187/12/59	745/20/90	1651/37/123	1944/38/128	1765/37/139	491/33/114

EUROPE MULTI-OPERATOR TWO TRANSMITTER

ES9C	523/14/65	1566/25/99	2205/37/126	2985/39/142	3529/39/150	1019/33/121
E17M	370/12/57	1200/20/87	2183/33/115	2808/36/124	3245/40/136	1454/33/117
CR6K	292/11/53	1048/20/91	2159/32/112	2677/38/136	2921/37/129	1744/29/114
IL2S	222/10/57	1079/21/93	1862/37/124	2199/38/131	2362/39/139	889/34/107
ED1R	286/12/57	1195/21/93	2067/32/108	2179/37/130	2144/38/124	1534/35/111

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

M6T	664/10/58	2175/22/97	3905/36/135	2341/39/140	2008/38/133	1678/35/127
EW5A	981/15/68	1760/24/101	2696/37/127	3554/38/137	2451/38/139	1264/34/107
DFØHQ	951/15/67	1909/23/100	3448/36/123	2383/39/138	2020/38/143	1075/33/120
LZ9W	689/11/62	1922/24/101	3297/35/127	3464/38/136	2392/37/136	1127/34/101
YT5A	714/14/63	1830/24/94	2935/35/121	3407/38/132	2372/38/130	1015/32/99

Table 5

Country	AS	EU	NA	OC	SA	Grand Total
9A		3				3
9M6				1		1
BY	10					10
CM			1			1
CT		1				1
DL		13				13
DU				2		2
E7		1				1
EA		1				1
EI		2				2
F		1				1
G		4				4
IT9		1				1
JA	5					5
K			13			13
LY		1				1
LZ		1				1
OE		2				2
OK		2				2
PY					3	3
S5		1				1
SP		11				11
SV		1				1
TA	1					1
UA		3				3
UR		1				1
VE			1			1
VK				2		2
VU	2					2
YB				4		4
YL		1				1
YO		4				4
YT		2				2
ZL				1		1
Summary	18	57	15	10	3	103

Table 5. Breakdown of Youth entries by geography

TOP SCORES IN VERY ACTIVE ZONES

Zone 3		Zone 15	
ND7K (@N6WIN)	3,036,215	4O3A (4O4A)	3,660,790
K6XX	1,939,200	S53MM	2,726,595
K6NA	1,352,184	OM7RU	2,485,615
VA7RR	858,108	*OK6T (OK1WCF)	2,121,010
VA7DX	744,504	OH2PQ	1,277,772
Zone 4		Zone 16	
CF3A (VE3AT)	7,994,096	R8WF	3,043,425
K5TR	5,006,144	EW2A	1,808,733
W9RE	4,845,002	UT5EL	1,575,520
K5GN	2,978,531	R2ARR	1,440,193
VC3X (VE7VR)	2,464,398	RM4HZ	1,022,352
Zone 5		Zone 20	
KQ2M	6,729,076	C4W (5B4WN)	5,883,312
K5ZD	6,311,403	YPØC (YO3CZW)	2,572,453
VY2TT (K6LA)	5,704,800	4Z4AK	946,810
K4ZW	5,661,114	YO8BDW	831,448
N1UR	5,410,820	4X1MM	830,109
Zone 14		Zone 25	
DM6V (DL7FER)	4,926,416	JH4UYB	3,599,750
EA3QP	4,419,236	JF2QNM	2,400,000
DK6WL	3,724,054	JH7QXJ	1,422,949
TM2Y (N5ZO)	3,237,876	JR1GSE	1,090,144
DL2CC	2,701,604	JA2AXB	914,373

*Low Power

Celebrating Our Youth Operators!



Here's a youthful 15-year-old Emilio, OA4CBU, hard at work from OA4O!

Hello from Peru – OA4CBU/OA4O!

Hi! I am Emilio, OA4CBU, and am 15 years old, having just received my ham radio license in May 2021. I've recently started to get interested in amateur radio contests and finally had the opportunity to participate in 2021 the CQWW SSB contest. Joining the Radio Club Peruano (RCP) team, I was able to quickly learn more about this wonderful contesting activity as well as ham radio overall and its possibilities.

My first experience in a major contest was very interesting, operating from the headquarters of the Radio Club Peruano. From the first moment I called CQ, I experienced some difficulties such as the constant "pile up" or high levels of QRM. However, for me it has been a very rewarding and fun. I expect to participate in more contests in 2022. Many thanks to my colleagues and RCP team who gave me this opportunity and to the stations that contacted OA4O while I was operating! 73!

Operating from Serbia – YU3AWA!

Hello, my name is Marija, YU3AWA. I've been waiting for the new Youth category for a long time. I am glad that I had the opportunity to participate in the CQWW SSB 2021 competition submitting my log as a Youth operator. Operating



A very enthusiastic Youth operator, Marija, YU3AWA, right before the CQWW.

as a high power, all band entry, I enjoyed working so many different DX stations! My thanks to Aleksandar, YT3H, for allowing me to operate from his ham shack.

You may have noticed that there were many active youngsters participating from many DX locations in this year's CQWW contest. I am proud to be one of them! In my short amateur radio career, I experienced amazing band conditions on both 10 and 15 meters for the first time. I didn't want to miss the opportunity to work many new DXCC entities which were plentiful, especially the islands in the Caribbean. I "lost" a lot of time as a station hunter, but it was a unique opportunity for me to log new countries. It's very possible that I did not have the best strategy for this 48-hour contest, so next time I plan to call CQ more frequently, racking up more points and multipliers!

Although I worked the competition as a high-power entry, I used rather modest equipment that cannot be compared to other "big gun" contest locations. Nevertheless, I was very satisfied with my results. This was my best CQWW SSB contest to date!

I am completely convinced that the new Youth category will encourage and incentivize many young people to participate in future CQWW contests. It will give the new young operators a chance to stand out and achieve respectable scores and rankings. For me, this new category was one of the best things that's been done to benefit new amateur radio operators and the youth community.

– 73/88, Marija, YU3AWA

Greetings from Canada – VE3OMV

Hello from Ontario, Canada. My name is Maria Polyanska, VE3OMV. The CQWW events are truly amazing contests. From the excitement of experimenting with antennas in anticipation of being able to hear DX, to the thrill of hearing



A proud Youth operator, Maria, VE3OMV, showing off her newly installed vertical antenna.

a new station, these contests offer memorable experiences while allowing me to put contacts in the log.

I first discovered the CQWW contest from members of my CWOps CW Academy class. The CQWW contests were the first that I operated using my own callsign, VE3OMV, having been just licensed in September 2021.

The most interesting area that I dedicated my time towards was the 15-meter band. When I was learning to acquire my license, an instructor would tell me something about propagation. To be honest, I didn't totally understand all of his points. In particular, I didn't really think that a band could quickly change — I simply thought it was just an exaggeration. However, I was able to experience that myself! I saw how 15 meters was not limited to one part of the world because the conditions are constantly changing. In the morning from my part of the world, the band is open to much of Europe, slowly progressing towards the African region around noon. In the afternoon, I would usually hear South and Central America and then Japan and North America in the evening. It was a

fascinating discovery. I cannot wait to learn more! If I had not participated in these contests, I do not believe that I would have seen this. It is not every day that the band is packed with stations from so many diverse places.

As I was still a new operator and this being my first big contest, one contact really surprised me. It was a friendly operator from Japan on 15 meters in the late evening. I had barely ever heard any stations from Japan from my location, so I was excited to potentially have this contact in my log. It was easy at first — but then there was so much QSB! At any moment the signal would alternate between being loud and drifting away to be extremely faint. I tried calling the station but they could not hear me. I tried again in about 15 minutes and they were so loud. It sounded as if he was not a DX at all. We finally made a successful contact.

Not only did I really enjoy the 2021 CQWW SSB contest; I cannot wait to do it again next year!

– 73/88, Maria, VE3OMV



Youth operator, Mily, YS1YXI, operating in her first CQWW contest.

Greetings from El Salvador – YS1YXI!

My name is Mily Erazo, YS1YXI. During 2020, I was present during the CQWW contest, but only as an SWL because I still did not have my amateur radio license to be able to operate. Nevertheless, I joined a YS contest team anyway. I really loved the intensity of the CQWW SSB Contest, which takes place every year during the last weekend of October. It wasn't until last year (2021) that I was finally able to operate.

El Salvador was present for another year in the CQWW 2021 contest from the *Club de Radio Aficionados de El Salvador* (CRAS). Our pre-contest strategy required that each individual operator considered: Food, sleep management, rest times, equipment, and other resources to guarantee the best individual and collective results.

In the end, my first CQWW was a great experience for me, I was able to enjoy amazing pile-ups and share the weekend with some great radio amateurs: Mario Giolitti (YS1TG), José Arturo (YS1MS), and my dad Juan (YS1JFE) — all part of what we called Team YS!

73, from the City of Ilopango,

– Mily, YS1YXI

Exploring in the CQ WW from EE7K

BY JUAN DE LAS CUEVAS, EA7AKK

Background

Upon hearing the news of a new Explorer overlay category in the CQWW, the EE7K team was excited to participate. Some of the operators had significant experience, having participated in MS, SOSB, and SOAB operations. In addition, a few team members had already implemented remote radios and we were aware that, sooner or later, advanced use of this option had to be considered by the CQWW committee — especially considering the growing use of remote stations and the state-of-the-art IP technologies.

One of the recurring problems we have experienced while operating MS stations is the breakdown of our receivers due to the presence of high RF currents and / or mistakes while switching filters. In addition, we usually had to erect several antennas for low bands, always right before the contest. For these reasons, EA7FUN and I started to improve our own remote stations. Moreover, as a result of an agreement with the “*Union de Radioaficionados de Sevilla*” we managed to install a new remote site at a TV broadcast center at 932 meters above sea level, 100 kilometers from our city, using a 4G router connection and a wire multi-band dipole for 40 / 80 / 160 meters.

In the end, we implemented four, single-radio amateur stations located within Seville’s province limits, without using any SDR receivers, as we thought that this would not be fair to other participants.

Operation

In some ways, this year’s installation seemed to be simpler considering we didn’t need to deploy RF devices. However, as usual, challenges arose in our operation — computing. It seemed we had countless PCs to control everything: Radios,



Victor, EA7FUN, having fun “Exploring” from EE7K.

antenna rotators, power amplifiers, as well as contest logging (using the newest version of Wintest™). Once we finally had everything working and were on-the-air, operating remained challenging. Everyone across our network had to be aware of multiple configuration parameters and be ready to solve any difficulty but in a remote way. Of course, we experienced the usual problems when using computers, including blue screens, lack of connectivity, and network overloading. Some latency was found transmitting with the ICOM 7610. And, we couldn’t find a way to connect a PTT pedal to drive this particular radio, so we implemented a keyboard shortcut to switching TX/RX.

In the end, however, we intended to simply enjoy this new category and that goal was accomplished. We have tested new techniques as well as a different approach to radio contesting. Of course, our goal was making a high score, but we also learned a lot and plan to try again in the coming years because we think this category is going to become a even more popular in the future.

Finally, there is the on-going debate of combining Single Operator Assisted and Unassisted categories. Again, while the legitimate use of assistance continues to grow, we are maintaining the position that these two categories should remain separate in the CQWW.

The Final Curtain

One of my greatest privileges in contesting is to closely work with the dedicated CQWW Contest Committee team. The effort this group puts forth into producing the results that you are reading is simply amazing, with some members having been with us for decades. For this year’s effort and all the other ones from the past, I simply want to say, “thank you!” Thanks to: CT1BOH, José Nunes; EA4KD, Pedro Vadillo; ES5TV, Tonno Vahk; F6BEE, Jacques Saget; GØMTN, Lee Volante; HA1AG, Zoli Pitman; IK2QEI, Stefano Brioschi; JH5GHM,

Katsuhiro (Don) Kondou; K1DG, Doug Grant; K1EA, Ken Wolff; K3LR, Tim Duffy; K3WW, Charles Fulp; K3ZO, Alfred A. (Fred) Laun, III; K5ZD, Randy Thompson; KR2Q, Doug Zwiebel; LA6VQ, Frode Igland; LU5DX, Martin Monsalvo; MØDXR, Mark Haynes; OH6LI, Jukka Klemola; PA3AAV, Gert Meinen; RA3AUU, Igor (Harry) Booklan; S5ØA, Tine Brajnijk; S5ØXX, Kristjan Kodermac; UA9CDC, Igor Sokolov; VE3EJ, John Sluymmer; VK2IA, Bernd Laenger; and YO3JR, Andrei (Andy) Ruse. Lastly, a special shout-out goes to Steve Bolia, N8BJQ, who stepped down after many years of dedicated committee service.

I know that many of you are already preparing for the next CQWW. See you in October!

— 73, John, K1AR
CQWW Contest Director

(Scores begin on page 91)