

CW Results of the 2021 CQ World Wide DX Contest

The CQWW Fills the Bands — Again!

"My first contest from home using an L-match to a rain spout! But it was the CQWW and always great fun! -DM5US

BY JOHN DORR,* K1AR

If there is any doubt that you've seen the last of the CW glory days, don't give up hope just yet. All one needs to do is to listen to the bands during a CQWW CW contest and you'll discover that our cherished mode is still alive and well. It was no different in the running of the 73rd CQWW. The bands were jam-packed from end-to-end with contest activity; 20 and 15 meters experiencing activity well above 14/21.100 MHz.

Of course, another measure of activity is the number of logs we receive. On CW, 8,613 logs were received, bringing the "both modes" total for 2021 to 17,720 entries — a new record for the CQWW. These logs represent over 9.6M (million) total QSOs or an average of 522 contacts per log. The numbers are simply staggering.

One of my favorite parts of this job is reading your soapbox comments. Believe it or not, I read them all! You can do so for yourself by checking out <cqww.com/results>. Here's just a representative sample, reflecting the enthusiasm and excitement created by the CQWW each year:

"This was my first CQWW in 62 years of hamming! It was fun to see what could be done with low power and very modest antennas." -K7ZX

"Every QSO is a sip of joy when made with 5 watts." -ON6NL

"I really had a ball this year and enjoyed working all bands. What a nice contest!" -PA3DTR

"... It's amazing when 40,000 friends get on the air and make some noise!" -K5GN

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Here's the PJ2T team that won World #1 in Multi-Multi from Curacao. Kneeling from left to right were: Roger, G4BVY; Geoff, WØCG/PJ2DX; Rich, NN3W; Jon, KL2A. Standing left to right were: Martin, G4XUM; Pete, K8PGJ; Brooke, N2BA; Ray, ND8L; and Rich, M5RIC.

So, now that the case has been made for the CQWW being a great contest, let's move on to the results.

Some Fantastic Results this Year!

While band conditions weren't quite as good as they were during the SSB weekend, there was still plenty of excitement and fun to be had by all on CW. The impact was felt from an increase in multi-op entries (2021 – 298; 2020 – 191). Let's all hope they'll be back in full force for 2022.

The World Single Operator race was dominated, yet again, by perennial top-finisher Dan Craig, N6MJ, as he drove

the TI7W superstation to a dominant victory at 16.1M, besting the amazing effort by CR6T (op. CT1ILT) at 12.1M. Dan perfectly played the 2BSIQ (Two Band Synchronized Interleaved QSOs) game to a grand total of 11,300 QSOs. That's an average of 235 QSOs/hour for the entire 48-hour contest! If you want to hear what his 464-hour sounded like, take a listen to <<https://tinyurl.com/4cpfd93v>>.

The U.S. Single-Operator All Band (SOAB) results were also led by another top-tier operator, Kevin Stockton, N5DX, who piloted N2QV to a 10.1M win, besting super-op W1KM who came in second at 7.5M. It's worthy of note

that several non-East Coast stations made the Top-10 this time around, led by N2IC (NM) at 5.7M, W9RE (IN) at 5.2M, and N9RV (MT) at 4.5M. Congrats to all!

The SOAB Low Power (LP) category was a little closer as Bud, AA3B, fired up his V26K station, achieving a final tally of 11.5M, beating out the SSB SOABHP winner, Juan, EA8RM, who posted an impressive score of his own at 10.9M. Bud has enjoyed an amazing run from Antigua, hav-

ing won this category 16 times in the past 23 years. It finally took a pandemic to end his last winning streak at seven consecutive victories.

The SO Assisted race was won again by P44W (W2GD) who continues to travel to Aruba each year and post winning results. John's 11.9M final score bested outstanding op Stan, ZF5T (K5GO)'s, solid effort of 9.0M. Randy, K5ZD, led the U.S. field again with a terrific score of 8.9M, coming in third in the world.

2021 WWDX CW PLAQUE WINNERS AND DONORS

SINGLE OPERATOR, ALL BANDS

World

TI7W (Opr.: Dan Craig, N6MJ)
Donor: Vibroplex

World - Low Power

V26K (Opr.: Bud Trench, AA3B)
Donor: Slovenia Contest Club

World - QRP

PZ5CO (Opr.: Dimitry Kryukov, RA3CO)
Donor: Bob Evans, K5WA

World - Assisted

P44W (Opr.: John Crovelli, W2GD)
Donor: Robert McGwier, N4HY

World - Assisted Low Power

P3AA (Opr.: Sergey Popov, RN3QO)
Donor: Mike Charteris, VK4QS

World - Assisted QRP

DM2M (Opr.: Pit Schmidt, DK3WE)
Donor: Steve "Sid" Caesar, NH7C

U.S.A.

Kevin Stockton, N5DX
Donor: Frankford Radio Club

U.S.A. - Low Power

Mark Speck, KØEJ
Donor: North Coast Contesters

U.S.A. - QRP

Doug Zwiebel, KR2Q
Donor: Andy Blank, N2NT - W3ZZ Memorial

U.S.A. - Assisted

Randy Thompson, K5ZD
Donor: John Rodgers, WE3C

U.S.A. - Assisted Low Power
Jim Bowman, KS1J

Donor: LA8W/LN8W & LA Contest Club

U.S.A. - Zone 3

Bob Wolbert, K6XX
Donor: Arizona Outlaws Contest Club

U.S.A. - Zone 4

Steve London, N2IC
Donor: Central Texas DX and Contest Club - K6RV
Memorial

U.S.A. - Zone 5

Greg Cronin, W1KM*
Donor: Carolina DX Association - N4ZC Memorial

Europe

CR6K (Opr.: Filipe Lopes, CT1ILT)
Donor: Florida Contest Group - W3AU Memorial

Europe - Low Power

IY3A (Opr.: Matteo Marzilli, IZ3EYZ)
Donor: Tim Duffy, K3LR

Europe - QRP

Tine Brajnik, S5ØA
Donor: Sergio Cartoceti, IK4AUY - I4FAF Memorial

Europe - Assisted

ERØDX (Opr.: Sergiy Rebrov, UT5UDX)
Donor: IR4X Monte Capra Contest Team - I4IND Memorial

Africa

Juan Hidalgo, EA8RM
Donor: Ralph "Gator" Bowen, N5RZ - K5KA Memorial

Asia

Masaki Masa Okano, JH4UYB
Donor: DFW Contest Group - W5PG Memorial

Carib./C.A. - High Power

V48A (Opr.: Bob Brockman, WX4G)*
Donor: DFW Contest Group - W5PG Memorial

Carib./C.A. - Low Power

VP9I (Opr.: Jeff Kinzli, N6GQ)*
Donor: Albert Crespo, NH7A

Oceania

VK6T (Opr.: Kevin Smith, VK6LW)
Donor: Ken Hoppe, KH7R

Oceania - Assisted

John Hillier, NH7T
Donor: Koa Contest Club

South America

Alexey Ogorodov, HC2AO
Donor: Dave Farnsworth, WJ2O

South America - Southern Cone (CE, CX, LU)

CB3R (Opr.: Dercel Gonzalez (Willy) Williams, XQ3SK)
Donor: Dale Long, N3BNNA

Scandinavia (LA, OH, OZ, SM)

Seppo Sisatto, OH1VR

Donor: Chas Weir, Jr., W6UM - W3FYS Memorial

Baltic (ES, LY, YL)

Jonas Urbanas, LY4T

Donor: Lithuanian Radio Sports Federation - LY2OO
Memorial

Canada - High Power

VE2IM (Opr.: Yuri Onipko, VE3DZ)

Donor: John Sluymer, VE3EJ & Jim Roberts, VE7ZO

Canada - Low Power

Igor Mordick, VA3FF

Donor: Maritime Contest Club - VE1AL Memorial

Japan - High Power

JE6RPM (Opr.: Katsuhiko Kondou, JH5GHM)*

Donor: Phil Yasson, AB7RW

Japan - Assisted

Hajime Hazuki, JR2GRX

Donor: Aki Nagi, JA5DQH

ASEAN (XZ, HS, XW, XU, 3W, 9M, 9V, V8, YB, DU)

Nikom Deesai, HS5NMF

Donor: Champ C. Muangamphun, E21EIC - Siam DX Group

ASEAN (XZ, HS, XW, XU, 3W, 9M, 9V, V8, YB, DU) - Assisted

Ron Schiltmans, DU3T

Donor: Champ C. Muangamphun, E21EIC - Siam DX Group

SINGLE OPERATOR, SINGLE BAND

World - 28 MHz

PR5B (Opr.: Alan Laure Santamaría, PY2LSM)

Donor: Joel Chalmers, KG6DX

World - 21 MHz

PX2A (Opr.: Fabio Alexandre Azevedo, PY2BK)

Donor: CWOps

World - 14 MHz

OH8X (Opr.: Pasi Luoma-aho, OH6UM)

Donor: North Jersey DX Assn. - W2JT Memorial

World - 7 MHz

KP2M (Opr.: Phillip Allardice, KT3Y)

Donor: John Rodgers, WE3C

World - 3.5 MHz

4L/LY4ZZ (Opr.: Algis Sadauskas, LY2BMX)

Donor: Family of Fred Capossella, K6SSS

World - 1.8 MHz

NP2J (Opr.: Daniel Flagg, K8RF)

Donor: Kenneth Byers, Jr., K4TEA

U.S.A. - 28 MHz

Jeff Stuparts, W4DD

Donor: John Rodgers, WE3C

U.S.A. - 21 MHz

Marvin Bloomquist, N5AW

Donor: Adrian Ciuperca, KO8SCA

U.S.A. - 14 MHz

Dan Handa, W7WA

Donor: Northern Illinois DX Association

U.S.A. - 7 MHz

Brian Edward, N2MF

Donor: Gene Shablygin, W3UA

U.S.A. - 3.5 MHz

K2ZW (Opr.: Hajime Kato, JO1RUR)

Donor: Bill Feidt, NG3K

U.S.A. - 1.8 MHz

John M Slusser, WF2W

Donor: Jeff Briggs, K1ZM

Europe - 28 MHz

Lluis Presseguer Capdevila, EA3NO

Donor: Jay Pryor, K4OGG

Europe - 21 MHz

Dmytro Pavlik, UZ5DX

Donor: John Rodgers, WE3C

Europe - 14 MHz

DMØA (Opr.: Helge Marschollek, DK3DM)

Donor: World Wide Radio Operators Foundation

Europe - 7 MHz

4O3A (Opr.: Dragan Djordjevic, 4O4A)

Donor: Ivo Pezer, 9A3A

Europe - 3.5 MHz

OHØTA (Opr.: Pekka Holstila, OH2TA)

Donor: Frankford Radio Club - K3VW Memorial

Europe - 1.8 MHz

S5ØC (Opr.: Sime Mermal, S53RM)

Donor: Pat Barkey, N9RV & Terry Zivney, N4TZ

Asia - 14 MHz

UPØL (Opr.: Vladimir Vinichenko, UN9LW)

Donor: Ralph "Gator" Bowen, N5RZ - W5FO Memorial

Asia - 7 MHz

UP4L, Valeriy Zhilyayev, UN7LZ

Donor: Rich Gelber, K2WR

Carib./C.A. (21 MHz)

WP4WW (Opr.: Jose A. Rivera-Salaman, KP4JRS)*

Donor: David Hodge, N6AN

Canada (14 MHz)

Gabor Horvath, VE7JH

Donor: John Sluymer, VE3EJ

Japan - 21 MHz

Akito Nagi, JA5DQH

Donor: Bob Wilson, N6TV

Japan - 14 MHz

Tsutomu Kubota, JK1OLT

Donor: Chris Terkla, N1XS

OVERLAY CATEGORIES

World - Classic

Doug Grant, K1DG

Donor: CWops

U.S.A. - Classic

W4CB (Opr.: Bud Hippisley, W2RU)*

Donor: CWops

Despite conditions being slightly down from SSB, LU2DX still managed to make 1,910 QSOs on 10 meters to place first with a score of 670,000 (K). The “money” bands of 15 and 20 meters supported million+ winning scores from ZY5T (PP5JR) and ED8W (EA1DAV), respectively.

The Classic overlay folks were also out in force this time around as Doug, K1DG, captured the World high with a HP score of 3.5M. Winning the world from the U.S. is no easy

feat. One of our accuracy champions this year, VP9I (N6GQ), outpaced his competitors with a LP entry of 2.9M.

As already mentioned, the bands were again alive with multi-ops. It began to feel like the old days as P33W posted a 23M Multi-Single score, beating LZ5R by over 8M points. W3LPL stepped back from its usual Multi-Multi (MM) configuration to win U.S. Multi-Single with a fine score of 14.2M. The Multi-Two (M2) teams were led by the CR3DX team, who

Japan – Classic
Kunishige Shimokawa, JA6BZI
Donor: Hajime Kato, JO1RUR

World – Rookie
LS2D (Daniel Dours, LU1DKJ)
Donor: CWOps

U.S.A. – Rookie
Stan Swanson, W4SSF
Donor: CWOps

Europe – Rookie
Serge Kurskov, EU1VA
Donor: EA Contest Club

ASEAN (XZ, HS, XW, XU, 3W, 9M, 9V, V8, YB, DU) -
Rookie Setio Wahono, YC4SIZ
Donor: Champ C. Muangamphun, E21EIC - Siam DX Group

World – Youth
Janko Mihalovic, YT0C
Donor: Zoli Pitman, HA1AG

North America – Youth
Dawson Morton, KE8HBV
Donor: IARU Region 2 for YOTA

Europe – Youth
Sven Lovric, DJ4MX
Donor: IARU Region I Youth Working Group

Asia – Youth
Riku Suda, JR2KHB
Donor: YOTA Japan

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

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

World – Explorer
Multi-Operator
RW0A (Oprs.: RA0AM, RA0AAC, R0AI, RG0A, RM0A,
RU0A, RU0AM, RV0AR, RW0AR, RZ0AT, UA0APV,
UF0B, RC09, UA9PM, RA9P, R9IR, RM9I, RU9I, RC9HB,
RC9HC, RW9USA, RV9UP, UA9UR, RZ9UN, RK9UE,
RA9USU, RX9UK)
Donor: World Wide Radio Operators Foundation

MULTI-OPERATOR, SINGLE TRANSMITTER

World
P33W (Oprs.: RA3AUU, RW4WR, UA4FER, R4FO, R3DCX,
RA2FA)
Donor: Friends of Rich - KL7RA Memorial

World – Low Power
FY5KE (Oprs.: F5HRY, FY5FY, F6FVY)
Donor: EA Contest Club

U.S.A.
W3LPL (Oprs.: W3LPL, NI1N, K3MM, N3OC, K3RA, W3UR,
NN3W, WR3Z, KQ4D)
Donor: Douglas Zwiebel, KR2Q

U.S.A. – Low Power
K1XM (Oprs.: K1XM, KQ1F)
Donor: CWOps

Africa
CR3X (Oprs.: R7KW, RW7K, YL3JM)
Donor: World Wide Radio Operators Foundation

Asia
RA9Y (Oprs.: RA9Y, RW9OW, RZ9YI, RL9Y, R8OA, R8OM,
RO9O, RQ9O)*
Donor: Steve Merchant, K6AW

Carib./C.A.
ZF1A (Oprs.: W9KKN, KI6RRN, KN8U, WD6T, NT6V, N2NL)
Donor: CWOps

Europe
LZ5R (Oprs.: LZ1NK, LZ2HM, LZ2PL, LZ2XA, LZ3ND,
LZ3ZZ, LZ5DB)
Donor: Gail Sheehan, K2RED

Europe – Low Power
DP7D (Oprs.: E79AA, DH6JL, DH8AF, DC9RI, DL1REM,
DJ4MH)
Donor: Marco Holleyn, DJ4MH

Oceania
DX9EVM (Oprs.: DU9XL, DU9CA, DU9HRG, DV9ARA,
DV9BTO, DU9AQB, DV9ILK)
Donor: Junichi Tanaka, JH4RHF

South America
PJ4A (Oprs.: KU8E, K4BAI, PJ4NX)
Donor: Araucaria DX Group

Canada
VE3EJ (Oprs.: VE3EJ, VE3EK, VE3MM, VE5MX)
Donor: John Sluymer, VE3EJ - VE3TA Memorial

Japan
JA7ZFN (Oprs.: JH7XMO, JG7PSJ, JI7GBI, JP7DKQ,
JA1CTB)
Donor: Madison Jones, W5MJ

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

MULTI-OPERATOR, TWO TRANSMITTERS
World
CR3DX (Oprs.: OM2VL, OM3BH, OM3GI, OM3RM, RC5A)
Donor: Array Solutions

U.S.A.
KC1XX (Oprs.: K1CC, K1QX, K1TR, KM3T, KC1XX, N1EZ,
NN1C, W1FV, WA1Z)
Donor: Robert Kasca, S53R

Europe
ES9C (Oprs.: ES2MC, ES2NA, ES2RR, ES4RD, ES5JR,
ES5NY, ES5QA, ES5RY, ES5TV, ES6QC, ES7GM, OK1JD,
OZ1AA, OZ7AM, SM0OEK, LY3DW, YL3JA)
Donor: D4C Monteverde Contest Team - IR4X Monte Capra
Contest Team - I4EAT memorial

ASEAN (XZ, HS, XW, XU, 3W, 9M, 9V, V8, YB, DU)
7A2A (Oprs.: YB0ECT, YC1SDL, YB2DX, YB2XVT)
Donor: Champ C. Muangamphun, E21EIC - Siam DX Group

MULTI-OPERATOR, MULTI TRANSMITTER

World
CR3W (Oprs.: DJ2YA, DK7YY, DL1CW, DL5AXX, DL5CW,
DL5LYM, DL7UGN)
Donor: The K2GL Operators - K2GL Memorial

U.S.A.
K3LR (Oprs.: K3LR, DL1CQI, K4RO, K3UA, N2NC, W2RQ,
N3SD, K5GN, N4YDU, N6TV, N6AN, N3GJ)
Donor: Ham Radio Outlet - W6RJ & N6RJ Memorial

Europe
TK0C (Oprs.: S53F, S53MM, S53BB, S53CC, S53WW,
S53RM, S53ZO, S57AL, S57L, S57K, S55OO)
Donor: Finnish Amateur Radio League

Africa
3B8M (Oprs.: GØCKV, MØSDV, MØCFW, KX7M, W6NV)*
Donor: EA9EO Memorial

Asia
JA3YBK (Oprs.: JG3KIV, JG3MRT, JG3WDN, JH4NMT,
JR4ISF, JF4FU, JM4MGW)
Donor: Nodir Tursun-Zade, EY8MM

CONTEST EXPEDITIONS

World – Single Operator
C56XA (Opr.: Alan Ibbetson, G3XAQ)
Donor: Friends of Phil - N6ZZ Memorial

World – Multi Operator
9X4X (Oprs.: 4X1VF, 4Z1DZ, 4Z4KX, 4Z5MU, 4Z5LA)
Donor: CWOps

SPECIAL AWARDS

World SSB/CW Combined
Juan Hidalgo, EA8R
24,349,929
Donor: Brane Milosevic, YT1AD

U.S.A. SSB/CW Combined
Robert L. Shohet, KQ2M
13,324,236
Donor: Bob Shohet, KQ2M

Europe SSB/CW Combined
Richard Tucek, OM7RU
5,403,595
Donor: World Wide Radio Operators Foundation

Triathlon Award - World RTTY/SSB/CW Combined
Yuri Onipko, VE3DZ
20,390,645
Donor: DX Lodge Roatan (HQ9X)

Triathlon Award - Europe RTTY/SSB/CW Combined
Andrius Ignatas, LY7Z
15,540,569
Donor: Bavarian Contest Club - DL8WPX Memorial

World Combined SSB/CW Score 160 Meters
NP2J (Opr.: Daniel Flraig, K8RF)
232,644
Donor: Team IB9T/IR9Y - IT9ZGY Memorial

World Combined SSB/CW Score
Multi-Operator Multi-Transmitter
PJ2T (Oprs.: WØCG, NN3W, KL2A, G4BVY, G4XUM,
M5RIC, K8PGJ, N2BA, ND8L,
K1EP, NG7M, KO8SCA, Y08WW, AC6ZM, N6AA, WI9WI,
VE4GV)
57,162,464
Donor: Friends and Family of Gene - N2AA Memorial

CLUB

U.S.A. SSB/CW
Frankford Radio Club
407,770,996
Donor: Northern California Contest Club

DX SSB/CW
Bavarian Contest Club
278,153,499
Donor: John Rodgers, WE3C

*Second Place

Table 1

Total Op Hrs	AF	AS	EU	NA	OC	SA	Total	% of all
0.1-5	1	144	306	331	22	26	830	15.3
5.1-10	6	155	512	382	22	22	1,099	20.2
10.1-15	2	133	505	312	18	24	994	18.3
15.1-20	5	88	452	261	11	11	828	15.3
20.1-25	3	92	364	197	11	10	677	12.5
25.1-30	2	58	201	110	6	9	386	7.1
30.1-35	2	56	249	142	6	11	466	8.6
40.1-45	2	10	62	31	4	5	114	2.1
45.1-48	0	5	20	9	0	0	34	0.6
Total	23	741	2,671	1,775	100	118	5,428	

Median for all logs – 13.9 hours

*SOAB entries only

Table 1. Total number of SOAB logs by operating time and continent.

2021 CQWW DX CW TOP SCORES

WORLD SINGLE OPERATOR HIGH POWER All Band	C56XA (G3XAQ).....422,928 PY2NY.....371,228	4X6FR.....7,939,968 K3WW.....7,359,330 ERØDX (UT5UDX)....7,068,072 AA1K.....6,951,717	3.5 MHz	CR3X.....9,440,051 UN4Q.....5,879,500 DP7D.....5,034,042 E7CW.....4,397,645	SP6MAA.....23,424 VA6BGE.....13,392 W6DMW.....10,010	
7 MHz	VK9DX.....560,959 RX1A.....306,204 EU2F.....306,016	LU2DX.....670,473 VR2XAN.....265,306 VK4SN.....195,225	28 MHz	HAØHV.....92,224 SP2EWQ.....85,095 E79D.....82,004	SX9V.....3,807,069 V31MA.....3,792,492 PY3CW.....3,608,252 K1XM.....3,546,447	
3.5 MHz	CO2JD.....112,608 OM3ZWA.....103,923 UN7LDR.....82,244	ZY5T (PP5KR).....1,213,950 CR2X (OH2GEK)....989,010 9A3TR.....806,607	1.8 MHz	ASSISTED QRP All Band	Low Power LS2D (LU1DJX).....874,551 EU1VA.....759,610 OK5MAX.....580,890 VA3OKG.....443,520 EA4HKF.....173,964 UBØAZR.....119,441 SQ5VCO.....104,650 IR4Q (IU4MRU)....79,734 ZS6KVZ.....58,608 N3AML.....57,986	
1.8 MHz	YT8A.....78,988 OM5NL.....64,255 HI3AA.....36,960	ED8W (EA1DAV)....1,154,264 YT3X.....1,104,928 HGØY (HA7GN)....896,289	21 MHz	DM2M (DK3WE)....1,627,480 ON6NL.....1,034,450 LZ6O (LZ3DX)....737,702 KP4AA.....645,344 US3EO.....508,431 K8ZT.....415,820	MULTI-OP TWO TRANSMITTER CR9DX.....31,115,616 PJ4K.....27,498,782 KC1XX.....17,591,384 ES9C.....16,974,906 UA4M.....12,893,463 ED1R.....12,669,750 K9CT.....11,848,431 NP4Z.....11,633,400 N4WW.....11,145,765 HG7T.....11,135,828	
28 MHz	PR5B (PY2LSM)....751,940 PY2YU.....316,134 OA4O (EA7TN)....287,056	ED8W (EA1DAV)....1,154,264 YT3X.....1,104,928 HGØY (HA7GN)....896,289	14 MHz	DM2M (DK3WE)....1,627,480 ON6NL.....1,034,450 LZ6O (LZ3DX)....737,702 KP4AA.....645,344 US3EO.....508,431 K8ZT.....415,820	MULTI-OP CLASSIC High Power K1DG.....3,547,492 VA2EW.....3,226,264 OHØZ (OH6EI)....2,949,753 G9W (MØDXR)....2,774,376 UA9MA.....2,683,878 IR1G (IZ1LBB)....2,669,224 WH7T (WH7W)....2,518,999 W4CB (W2RU)....2,414,160 PS2T (PY2ZEA)....2,373,555 W1WEF.....2,357,783	
21 MHz	PX2A (PY2BK).....1,225,431 5Z4VJ (G3AB).....1,074,502 4Z4AK.....729,864	PZ5CO (RA3CO).....4,187,771 3V8SS (KF5EY)....2,063,608 SS0A.....1,297,660 KR2Q.....888,998 LY5G.....597,870 OK7CM.....450,840	7 MHz	V3X (K4XS).....1,253,440 S52AW.....1,038,606 S51YI.....949,268	MULTI-OP MULTI-TRANSMITTER 4I1EBC.....64,113 LT7D (LU7DZ)....49,056 YT2RX.....8,544	
14 MHz	OH8X (OH6UM).....1,102,304 UPØL (UN9LW)....945,345 DM0A (DK3DM)....873,216	R9A6A.....568,282 RDBD (R9GM)....527,202 OM0M (OM3CGN)....519,420 JR4DAH.....311,520	3.5 MHz	4I1EBC.....64,113 LT7D (LU7DZ)....49,056 YT2RX.....8,544	Low Power VP9I (N6GO)....2,935,723 4U1A (HB9RB)....2,146,428 N8II.....1,341,780 E17EE (OZ2I)....1,150,253 ON4CT.....1,013,498 UW8SM.....953,544 RA8SF.....854,441 EC3A.....756,945 WC5L.....704,536 OK1TA.....683,235	
7 MHz	KP2M (KT3Y).....1,392,000 UP4L (UN7LZ)....1,371,534 EY8MM.....1,247,376	VR2T (VR2ZQZ)....69,651 EA5Y.....16,281 DG3T (DF5RF)....4,130	28 MHz	SP7M.....60,960 HA3JB.....59,040 CT9/M0BLF.....43,656	EXPLORER SINGLE-OP 9G5FI.....5,094,778 RL6M.....2,437,624	
3.5 MHz	4L/LY4ZZ (LY2BMX)....648,733 K2ZW (JO1RUR)....387,226 OHØTA (OH2TA)....382,916	LZ2RS.....71,944 UT5EOX.....42,840 JQ1NGT.....40,588	21 MHz	SP7M.....60,960 HA3JB.....59,040 CT9/M0BLF.....43,656	YOUTH High Power YTØC.....2,782,500 SA6NIA.....209,019 IR1N (IU1LCU)....157,950 R5CA.....150,336 E18KW.....118,320 JR2KHB.....114,882 KE8HBV.....85,932 W7AOF.....51,182	
1.8 MHz	NP2J (K8RF).....190,848 VE3ZI.....149,876 R3XA.....68,796	US5VX.....87,668 NK3U.....87,300 EA2CAR.....63,714	14 MHz	EF3O (EA3O)....263,664 RT4W.....148,292 DL1EFW.....131,040	YOUTH Low Power VP9I (N6GO)....2,935,723 4U1A (HB9RB)....2,146,428 N8II.....1,341,780 E17EE (OZ2I)....1,150,253 ON4CT.....1,013,498 UW8SM.....953,544 RA8SF.....854,441 EC3A.....756,945 WC5L.....704,536 OK1TA.....683,235	
LOW POWER All Band	V26K (AA3B).....11,459,091 EA8RM.....10,918,560 VP9I (N6GO).....5,040,460 IY3A (IZ3EYZ)....3,347,729 HC2AO.....3,220,700 LY4L.....2,725,757 KOEJ.....2,538,729 4U1A (HB9RB)....2,146,428 OL5Y.....1,919,152 N4TZ.....1,897,198	E77T.....90,432 IW3ILM.....35,928 AC2YD.....33,046	7 MHz	P3AA (RN3QQ)....6,046,456 R8CT.....3,896,280 9A2EU.....3,062,748 UT4LW.....2,854,645 OE2S (OE2VEL)....2,646,952 SN70 (SP7IVO)....2,628,285 UW6E (UR6EA)....2,438,289 DJ5MO.....2,412,860 DJ4MX.....2,409,584 PA9M.....2,185,920	7 MHz	EXPLORER MULTI-OP 9G5FI.....5,094,778 RL6M.....2,437,624
3.5 MHz	E77Y.....63,217 OK1FKD.....16,830 SM6DOI.....16,695	PX5M (PP5BT)....205,308 4F3BZ.....122,775 IR9K (IT9BXR)....72,944	28 MHz	EA5DF.....150,892 M3A (MOUKR)....104,178 HA4FY.....45,738	YOUTH Low Power YTØC.....2,782,500 SA6NIA.....209,019 IR1N (IU1LCU)....157,950 R5CA.....150,336 E18KW.....118,320 JR2KHB.....114,882 KE8HBV.....85,932 W7AOF.....51,182	
1.8 MHz	DL1AOB.....14,681 HA1TI.....8,568 YT2T.....6,364	HK3RD (HK3TU)....581,276 CO8LY.....435,996 PY2WH.....354,688	21 MHz	P33W.....23,465,442 LZ5R.....15,150,240 PJA4.....14,785,245 TM6M.....14,715,348 W3LPL.....14,233,680	EXPLORER MULTI-OP 9G5FI.....5,094,778 RL6M.....2,437,624	
21 MHz	FR4KR (FR8UA)....509,232 LS2D (LU1DJX)....461,160 EC7R.....204,156	RA9AP.....501,819 GW5R (GW3YDX)....489,216 UR7GO.....468,625	14 MHz	IR4M.....13,497,792 K1LZ.....13,441,032 OM7M.....13,349,390 ZF1A.....12,380,560 E7DX.....12,333,750	ROOKIE High Power LB5GI.....490,471 ED2B (EA2ESB)....480,754 W4SSF.....443,256 KD9PLD.....364,180 AC3LZ.....110,143 DM2HK.....91,512	
28 MHz	PY2EX.....180,705 EA3NO.....63,570 JT1CO.....30,228	OL9R (OK6RA)....591,712 UA9CTT.....410,312 UA9W.....356,278	14 MHz	FY5KE.....10,398,990		
21 MHz	FR4KR (FR8UA)....509,232 LS2D (LU1DJX)....461,160 EC7R.....204,156	P44W (W2GD)....11,884,950 ZF5T (ZF9CW)....9,024,639 K5ZD.....8,943,750 T07A (UT5UGR)....8,616,426 K1ZZ.....8,145,450 4L2M.....491,840	7 MHz			
14 MHz	VA2WA.....8,080,182	VA9W.....356,278	Low Power			

achieved a tremendous score of 31.1M. The MM giants were dominated by the effort of CR3W, beating the PJ2T group with a final score of 36.6M. The U.S. presence was alive and well with the K3LR group back on the air again as a MM, placing fifth in the world and first in the U.S. at 21.7M.

A well-deserved set of kudos go out to those of you who participated in our new overlays: Youth and Explorer. As a reminder, the Explorer overlay has been created to allow amateurs to competitively participate in the CQWW Contest while experimenting creatively with internet-linked stations and other new technologies. The goal is to encourage innovation in operating

strategies, station design, and technology adaptation.

It was exciting to see first-time Youth entry Janko, YTØC (YU3EEA), handily win the HP category with a final tally of 2.9M and Sven, DJ4MX, top the LP list with score of 2.4M. Our Explorers were out in force as 22 entries checked out the new category won by 9G5FI (SO) and RWØA (MO).

Finally, congratulations to this year's club winners — the Frankford Radio Club (U.S.) and the Bavarian Contest Club (DX). The number of club entries continues to grow as we received entries from 74 U.S.-based groups and 211 DX organizations. The criteria for being a valid club entry is simple: Any group with

UNITED STATES		3.5 MHz	K2KW.....17,608	K1RQ.....398,970
SINGLE OPERATOR		W3LL.....69,635	W8UVZ.....15,870	KT4XA.....206,114
HIGH POWER		NGØC.....10,620		W1FM/6.....9,424
All Band				
N5DX (@N2QV).....10,090,280				
W1KM.....7,479,282				
KQ2M.....6,595,160				
N2IC.....5,757,054				
NN7CW.....5,314,569				
28 MHz		1.8 MHz	WD8DSB.....1,656	
W4DD.....24,420				
K4WI.....20,591				
KJ9C.....13,965				
21 MHz		QRP All Band		
N5AW.....537,180				
KU2M.....507,702				
K2SSS.....358,730				
14 MHz		21 MHz		
W7WA.....455,295				
N7TU.....422,890				
W6YA.....389,532				
7 MHz		14 MHz		
N2MF.....864,912				
W7RM (N6TR).....663,375				
NN1N.....572,859				
3.5 MHz		7 MHz		
K2ZW (JO1RUR).....387,226				
W3BGN.....163,125				
K9ZO.....161,200				
1.8 MHz		3.5 MHz		
WF2W.....41,625				
W5ZN.....33,291				
N4XD.....18,711				
LOW POWER All Band		ASSISTED HIGH POWER All Band		
KØEJ.....2,538,729				
N4TZ.....1,897,198				
K4OAQ.....1,424,505				
K1VUT.....1,348,704				
N8II.....1,342,920				
28 MHz		28 MHz		
K8FF.....9,108				
N4HA.....4,968				
21 MHz		21 MHz		
WB4TDH.....201,480				
W1MU.....122,520				
W8JGU.....70,914				
14 MHz		21 MHz		
WA7BNM.....93,100				
N6MA.....76,410				
W2TZ.....63,578				
7 MHz		14 MHz		
W3EF.....138,990				
WA1FCN.....137,830				
W1NN.....102,960				
3.5 MHz		3.5 MHz		
W3LPL.....14,233,680				
K1LZ.....13,441,032				
W2FU.....9,683,139				
K9RS.....7,498,491				
K8AZ.....7,295,499				
Low Power		MULTI-OP SINGLE TRANSMITTER High Power		
K1XM.....3,546,447				
NJ4P.....2,350,560				
YOUTH High Power		YOUTH High Power		
KE8HBV.....85,932				
W7AOF.....51,182				
Low Power		Low Power		
KG5HVO.....35,061				

Table 2A

Category	AF	AS	EU	NA	OC	SA	ALL	% of Total Logs
SOAB High Asst	2	141	655	701	18	19	1,536	26.8
SOAB High U	5	155	277	248	26	13	724	12.6
SOAB Low Asst	4	126	700	347	20	41	1,238	21.6
SOAB Low U	10	285	868	427	28	37	1,655	28.8
SOAB QRP Asst	1	7	59	14	2	3	86	1.5
SOAB QRP U	1	27	112	38	6	5	189	3.3
Explorer M	0	2	6	2	0	0	10	0.2
Explorer S	1	1	6	3	0	1	12	0.2
Multi-2	1	13	23	19	3	2	61	1.1
Multi-Multi	2	6	13	12	2	1	36	0.6
Multi-Single High	0	22	66	32	1	2	123	2.1
Multi-Single Low	2	19	31	6	5	5	68	1.2
ALL	29	804	2,816	1,849	111	129	5,738	100.0
% by Continent	0.5	14.0	49.1	32.2	1.9	2.2	100.0	

Table 2A. Number of All Band / Multi-Op entries by category and continent

Table 2B

Type	AF	AS	EU	NA	OC	SA	Total
Assisted	30.4	37.0	52.9	59.8	40.0	53.4	52.7
Non-Assisted	69.6	63.0	47.1	40.2	60.0	46.6	47.3
Total Logs	23	741	2,671	1,775	100	118	5,428

Table 2B. % split between Assisted / Non-Assisted SOAB logs by continent

2021 CQWW DX CW 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
TI7W	474/14/47	1431/26/79	3039/29/101	2899/35/102	2923/31/94	534/17/25
CR6K	597/15/62	1367/20/74	2594/28/97	2064/33/91	2138/34/92	929/25/75
*V26K	263/12/41	1145/16/73	2232/26/96	2071/31/94	2091/30/91	323/15/44
*EA8RM	149/10/40	1004/18/64	1849/24/79	1309/22/67	2027/25/75	1219/23/68
N5DX	179/18/52	1041/27/85	1867/35/98	1695/28/91	1153/26/90	67/17/29

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
N5DX	179/18/52	1041/27/85	1867/35/98	1695/28/91	1153/26/90	67/17/29
W1KM	208/15/48	1087/23/72	1175/27/87	1119/28/89	1153/26/92	60/13/23
KQ2M	100/12/45	544/18/69	1146/26/88	1151/33/96	1250/30/104	64/17/34
N2IC	37/16/20	194/23/59	1428/34/94	1213/32/94	1043/29/90	84/15/33
NN7CW	86/14/38	376/18/64	1270/23/82	1149/27/87	1103/25/84	26/9/10

WORLD SINGLE OPERATOR ASSISTED ALL BAND

Station	160	80	40	20	15	10
P44W	328/18/59	825/22/81	1377/32/113	1083/33/107	1571/32/108	880/20/61
ZF5T	535/17/64	844/25/82	1065/31/103	1510/35/104	1848/34/103	158/15/28
K5ZD	124/16/58	564/25/87	1311/32/111	1417/32/113	1110/29/115	77/19/38
T07A	235/13/41	896/22/70	1825/28/92	1634/30/95	1725/27/84	358/30/27
K1ZZ	92/16/53	500/27/93	1354/34/116	1616/32/116	456/30/115	72/18/40

USA SINGLE OPERATOR ASSISTED ALL BAND

Station	160	80	40	20	15	10
K5ZD	124/16/58	564/25/87	1311/32/111	1417/32/113	1110/29/115	77/19/38
K1ZZ	92/16/53	500/27/93	1354/34/116	1616/32/116	456/30/115	72/18/40
K3WW	69/14/46	495/22/86	1376/34/119	1395/31/111	770/27/101	51/18/29
AA1K	113/17/56	463/26/89	1050/33/112	1380/34/113	841/29/108	41/16/24
N3RS	60/13/44	452/23/83	1039/33/115	1007/33/111	905/28/111	47/18/29

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

Station	160	80	40	20	15	10
P33W	421/21/80	1497/32/105	2846/37/131	2369/39/131	2159/36/129	399/30/87
LZ5R	181/19/73	1203/32/107	3183/38/137	2518/39/133	1804/37/133	175/29/87
PJ4A	150/16/50	925/25/82	1684/36/118	1732/36/110	1745/32/116	997/22/68
TM6M	178/18/74	1094/32/101	2513/37/130	2294/38/129	1857/37/130	355/27/78
W3LPL	73/21/70	1041/31/102	2150/39/128	1618/38/133	1433/33/124	57/22/54

USA MULTI-OPERATOR SINGLE TRANSMITTER

Station	160	80	40	20	15	10
W3LPL	73/21/70	1041/31/102	2150/39/128	1618/38/133	1433/33/124	57/22/54
K1LZ	163/19/75	1099/28/100	2040/36/129	1266/36/124	1397/32/120	136/24/69
W2FU	102/17/54	763/26/93	1468/34/124	1292/37/124	1146/32/119	57/20/43
K9RS	61/17/49	451/26/92	1308/34/116	1165/35/118	923/30/117	31/18/29
K8AZ	64/17/54	505/26/88	1122/33/118	1191/34/118	828/31/117	42/20/41

WORLD MULTI-OPERATOR TWO TRANSMITTER

Station	160	80	40	20	15	10
CR3DX	580/18/66	1419/29/91	3406/36/124	2743/38/121	3805/38/118	1553/30/89
PJ4K	473/18/64	1222/29/95	3901/37/125	3103/36/117	3210/34/116	815/21/65
KC1XX	197/20/69	1523/32/105	2199/38/126	1767/37/121	1915/38/131	1276/32/120
ES9C	1047/23/82	2435/34/105	2733/39/133	2670/38/126	2059/36/127	324/28/78
UA4M	773/20/74	1827/33/103	2927/37/130	2029/38/124	1874/34/117	392/25/64

USA MULTI-OPERATOR TWO TRANSMITTER

Station	160	80	40	20	15	10
KC1XX	197/20/69	1523/32/105	2199/38/126	2068/36/128	1768/32/124	155/24/63
K9CT	178/22/64	722/31/96	1675/37/121	1915/38/131	1276/32/120	133/19/38
N4WW	70/17/54	682/26/93	2045/37/126	1635/37/123	1220/32/119	106/16/37
K1RX	145/16/57	833/26/89	1499/29/105	2077/34/121	1375/29/104	91/19/38
ND7K	74/17/30	449/29/73	1625/38/116	1573/36/121	1223/34/113	88/16/25

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

Station	160	80	40	20	15	10
CR3W	1073/18/67	2328/31/97	3480/37/126	3419/37/130	3089/38/129	1624/29/94
PJ2T	756/21/68	1717/27/91	3123/32/109	2999/36/109	3205/34/109	1187/25/75
TK0C	1970/20/82	3435/33/107	4698/36/130	3666/36/119	2719/37/125	877/27/89
3B8M	201/13/44	670/32/76	1915/35/108	2880/38/117	3302/37/125	1897/30/98
K3LR	493/23/74	1621/32/105	2674/38/134	2656/38/136	1901/35/130	405/25/64

USA MULTI-OPERATOR MULTI-TRANSMITTER

Station	160	80	40	20	15	10
K3LR	493/23/74	1621/32/105	2674/38/134	2656/38/136	1901/35/130	405/25/64
NR4M	364/20/68	1281/31/101	2301/37/129	2218/36/126	1701/29/117	209/20/49
K1TTT	425/20/68	1110/29/98	1888/36/122	2010/36/120	1213/29/114	355/21/54
K0RF	186/21/48	408/30/86	1227/37/117	1963/36/117	980/34/118	106/18/34
K1KI	90/15/54	499/25/90	1244/33/114	984/34/107	987/30/105	65/17/26



Often confused with a NASA ground control operation, here is the TI7W station that Dan, N6MJ, steered to a solid #1 World SOAB win!

EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
CR6K	597/15/62	1367/20/74	2594/28/97	2064/33/91	2138/34/92	929/25/75
EA6FO	498/12/51	1488/19/71	2276/28/83	1996/31/78	1438/26/76	374/15/46
YR8D	554/12/53	1565/20/70	1108/27/84	1914/28/84	757/30/85	32/9/13
J42L	341/9/42	791/22/58	1675/24/79	1692/29/73	1057/31/75	104/18/39
G4BUO	255/12/42	580/14/56	1022/25/81	1039/27/77	662/26/67	105/14/41

EUROPE SINGLE OPERATOR ASSISTED ALL BAND

ERØDX	266/6/39	1561/25/86	1656/33/117	1552/35/110	1301/33/113	76/17/39
HA8A	380/13/60	670/21/74	1991/37/120	1064/34/109	642/36/117	115/25/58
SN7Q	290/17/65	1075/30/93	1009/35/115	1070/34/104	833/33/98	104/19/47
HG8R	285/17/60	716/26/82	1458/37/122	995/32/106	838/37/106	93/20/43
UW1M	94/10/48	614/19/76	2428/37/127	1489/34/108	751/33/105	112/22/42

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

LZ5R	181/19/73	1203/32/107	3183/38/137	2518/39/133	1804/37/133	175/29/87
TM6M	178/18/74	1094/32/101	2513/37/120	2294/38/129	1857/37/130	355/27/78
IR4M	130/20/76	902/31/100	2223/38/137	2395/39/135	1432/37/122	93/29/83
OM7M	244/23/86	1317/35/107	2208/38/135	2289/39/131	1305/38/126	83/27/81
E7DX	204/19/79	1057/34/106	2339/37/133	2057/38/131	1435/38/134	151/30/79

EUROPE MULTI-OPERATOR TWO TRANSMITTER

ES9C	1047/23/82	2435/34/105	2733/39/133	2670/38/126	2059/36/127	324/28/78
UA4M	773/20/74	1827/33/103	2927/37/130	2029/38/124	1874/34/117	392/25/64
ED1R	467/16/68	1408/29/95	2726/37/124	2339/34/109	2065/37/118	477/20/63
HG7T	519/17/68	1580/32/98	2364/37/129	2050/36/119	1136/36/111	108/20/48
SK3W	809/22/75	1467/33/97	2256/38/135	1944/35/117	1162/37/118	129/23/62

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

TK0C	1970/20/82	3435/33/107	4698/36/130	3666/36/119	2719/37/125	877/27/89
M6T	1320/18/75	2841/37/114	3741/38/137	2509/39/132	1409/37/122	514/28/92
LZ9W	1326/17/75	2269/36/114	3969/36/135	2949/39/130	1716/37/124	290/26/65
OL3Z	1231/16/67	2399/30/95	3435/37/135	2296/37/125	1335/37/117	288/27/81
DFOHQ	1251/19/80	2061/32/101	3596/38/142	2113/38/128	1199/37/125	328/27/81

TOP SCORES IN VERY ACTIVE ZONES

Zone 3

K6XX	.....	2,950,973
K6NA	.....	1,870,506
WJ9B	.....	1,761,823
VA7ST	.....	1,110,417
W7YAQ	.....	1,054,620

Zone 16

EW2A	.....	1,921,565
RD4F	.....	1,637,820
R5AJ	.....	1,575,180
UA6CC	.....	1,422,891
EW1I	.....	1,362,030

Zone 4

CF3A (VE3AT)	.....	6,350,676
VE3JM	.....	6,012,744
N2IC	.....	5,757,054
W9RE	.....	5,233,512
N9RV	.....	4,469,155

Zone 20

YR8D (YO8TTT)	.....	5,142,790
J42L (N5ZO)	.....	5,052,874
C4W (5B4WN)	.....	3,097,192
YM7KA (TA7I)	.....	1,847,040
4Z4AK	.....	729,864

Zone 5

N5DX (@N2QV)	.....	10,090,280
VY2TT (K6LA)	.....	8,035,280
VY2ZM (K1ZM)	.....	7,865,424
W1KM	.....	7,479,282
KQ2M	.....	6,595,160

Zone 25

JH4UYB	.....	4,541,460
JE6RPM	(JH5GHM)	3,965,890
JO4JKL	.....	3,767,720
JF2QNM	.....	2,071,779
DS4EOI	.....	1,560,287

*Low Power

Zone 14

CR6K (CT1ILT)	.....	12,055,652
EA6FO (EA3M)	.....	7,577,968
G4BUO	.....	3,561,980
G9W (MØDXR)	.....	2,774,828
MØX (MØRTI)	.....	2,088,304

IY3A (IZ3EYZ)	.....	3,347,729
OHØZ (OH6El)	.....	2,963,072

Table 3

Call	Cont	Category	Raw QSOs	% Error Rate	Bad QSOs
VP9I (N6GQ)	NA	SOAB LP	5,014	0.84	42
W1KM	NA	SOAB HP	4,846	0.91	44
NN7CW	NA	SOAB HP	4,050	0.99	40
N2IC	NA	SOAB HP	4,031	0.79	32
OM7RU	EU	SOAB HP	3,360	0.98	33
LY4T	EU	SOAB HP	2,804	0.89	25
9N7AA (S53R)	AS	SOAB HP	2,280	0.88	20
VE6BBP	NA	SOAB HP	2,111	0.76	16
LB6GG	EU	SOAB LP	2,078	0.72	15
YL2VW	EU	SOAB HP	2,055	0.73	15
VA7ST	NA	SOAB HP	2,034	0.79	16
K8GL	NA	SOAB HP	1,853	0.70	13
RD4F	EU	SOAB HP	1,818	0.50	9
K6NA	NA	SOAB HP	1,645	0.85	14
SP1AEN	EU	SOAB LP	1,644	0.73	12
JI1RXQ	AS	SOAB LP	1,496	0.60	9
HB9ARF	EU	SOAB LP	1,422	0.84	12
K1GU	NA	SOAB HP	1,235	0.65	8
9A2EY	EU	SOAB LP	1,230	0.81	10
JH1QDB	AS	SOAB HP	1,165	0.77	9
R5AK	EU	SOAB HP	1,150	0.96	11
RA3NC	EU	SOAB HP	1,147	0.52	6
UA4AGT	EU	SOAB LP	1,124	0.80	9
EA3ICJ	EU	SOAB LP	1,114	0.54	6
SP7IIT	EU	SOAB HP	1,104	1.00	11
NAØN	NA	SOAB LP	1,070	0.19	2
VE3KP	NA	SOAB HP	1,045	0.96	10
G3ZGC	EU	SOAB HP	1,041	0.38	4
W7YAQ	NA	SOAB HP	1,010	0.59	6
S58MU	EU	SOAB LP	1,010	0.69	7
UD6M	EU	SOAB LP	1,006	0.80	8
G4DDL	EU	SOAB LP	1,005	0.80	8

Table 3. Single Operator accuracy leaders (>1,000 QSOs)

Table 4

Year	160	80	40	20	15	10	Total
2021	160	80	40	20	15	10	4,944
2020	280	786	1,337	1,322	1,059	158	5,213
2019	278	873	1,350	1,367	1,133	213	4,441
2018	296	832	1,325	1,494	448	46	4,367
2017	290	791	1,382	1,485	402	16	4,376
2016	265	800	1,289	1,301	673	48	4,175
2015	257	747	1,175	1,247	672	78	5,027
2014	190	681	1,276	1,197	1,263	421	5,598
2013	180	557	1,104	1,090	1,268	1,399	5,270
2012	172	575	1,121	1,019	1,218	1,165	4,913
2011	193	601	1,016	1,058	1,193	852	5,100
2010	177	554	1,108	924	1,051	1,286	4,392
2009	177	554	1,181	1,147	905	169	3,761
2008	246	744	1,043	1,133	284	21	3,415

Table 4. Number of total QSOs in CQWW CW per band by year (in '000s)

four or more entries can compete in this popular part of the CQWW contest.

Congratulations to everyone who participated and especially those who submitted your logs.

How Much Time Did You Operate in the CQWW CW Contest?

Well, the Single Ops backed off just a little in median operating time for the 2021 contest (See Table 1). Last year's metric of 14.7 hours dropped by 5.5% to a level of 13.9 hours, still impressive when you consider that half of us operated at least 29% of the total available hours in the contest. For many of you, I think you can break down a typical CQWW this way:

- Friday night: Operate the contest until you get tired. Sleep.
- Saturday AM: Work the high bands for a few hours.
- Saturday Afternoon: Run errands for XYL / partner.
- Saturday Evening: Work contest for an hour or two. Go out to eat with XYL / Partner. Return to contest. Sleep.
- Sunday Morning: Work the high bands.
- Sunday Afternoon: Watch TV with XYL / Partner in between an occasional hour here and there to operate.
- Sunday Evening: Eat quick dinner with XYL / Partner and finish last hour or two of contest.
- Sunday Evening after contest: Brief conversation with XYL / Partner; Pass out.

And, of course, there is that "special" group of 45+ hour ops. That train has long since left my station, but it's exciting to see 34 operators making that level of commitment (I will add that there were 51 last year!).

Which Category is Your Favorite?

The popularity of the Assisted category continues to grow as it has now become the dominant leader in all CQWW categories (see Tables 2A and 2B). For example, when considering all assisted category groups, there were 2,860 entries vs. 2,568 unassisted logs. For the first time, more than half of this year's Single Operators used assistance, a 3% year-over-year increase from 2020. Use of assistance was particularly popular in North America and Europe, which is in striking contrast to Asia, where nearly 63% of entrants chose to be unassisted. As the sunspots light up the ionosphere, I expect this trend to continue.

Table 5

Entity	AS	EU	NA	OC	Total
BY	5	0	0	0	5
DL	0	2	0	0	2
E7	0	1	0	0	1
EI	0	1	0	0	1
I	0	4	0	0	4
JA	6	0	0	0	6
K	0	0	4	0	4
LY	0	2	0	0	2
SM	0	1	0	0	1
SP	0	1	0	0	1
UA	0	1	0	0	1
VE	0	0	1	0	1
YB	0	0	0	2	2
YO	0	1	0	0	1
YT	0	1	0	0	1
Total	11	15	5	2	33

Table 5. Total number of Youth entries received by entity / continent

Accuracy at its Finest!

Yet again, there were some standout accuracy champions in the CQWW. It's a true accomplishment to see incredible sub-1% results (see *Table 3*) with so many competitors. Whether you marvel at VP9I (op. N6GQ) only busting 42 QSOs out of 5,014 contacts or NAØN logging just two bad QSOs in a log of over 1,000 contacts, the results are equally impressive for everyone making this chart. Congratulations on a job well done!

Here Comes the Sun!

There's no debate that the CQWW contest is a QSO machine and the 2021 CW edition was no exception: ~4.9M QSOs (see *Table 4*). In fact, if you do the math, over the past 10 years (2011-2021), there have been approximately 53.4M QSOs made in the CQWW CW contest alone! That's 31 QSOs per second for all 480 hours of operation.

While the best is yet to come in Cycle 25, I'm happy to report that 10 meters is slowly coming back to life. A quick look at the peak years of Cycle 24 is the proof to that claim. Let's keep our fingers crossed for this fall being a banner year.

Some Youthful Entries

While the total number of youth overlay CW entries in this first year was a little disappointing, there was broad participation from around the world (see *Table 5*). For the 2021 CQWW as a whole, however, we received 136 entries — a decent overall showing for the first year of this new overlay category. Several of this year's youth participants submitted logs for both modes. It's fair to say that 100% of you were enthusiastic and excited to participate in this new approach in the CQWW contest.

I'm optimistic that participation will grow as the word continues to spread. You can help us by passing the word—at your club meetings, on email reflectors, social media and, yes, even “on the air.” Enthusiasm breeds enthusiasm as we strive to support more youth activity in the world's largest contest.

Being Careless About Spots

I thought it would be helpful to provide some representative samples of busted callsigns that we found in this year's logs

Table 6

Real call	Bad spot	# QSOs made
TKØC	TK9C	62
	TKØK	8
	KØC	4
	AKØC	1
	EKØC	1
	TKØF	1
	TKØN	1
	TK1C	1
	Total – 79	
UA4S	UA4I	55
	UA4H	8
	UA4SE	6
	UA4A	2
	UA4N	1
	Total – 72	
RWØA	RMØA	16
	RW9A	10
	NWØA	4
	RWØW	3
	RUØA	3
	RW1A	2
	RWØT	2
	RWØI	1
	RWØAF	1
	RWØAE	1
	RWØAD	1
	Total – 44	
ES9C	EI9C	73
	IS9C	8
	ES6C	5
	ES9CE	2
	Total – 88	
JF1NHD	JF1NSD	56
	Total – 56	
EE3M	EI3M	55
	Total – 55	
VE7JH	VE7JS	47
	Total – 47	
DFØHQ	DLØHQ	12
	DF1HQ	10
	DLØSQ	8
	DFØSQ	7
	DFØFQ	5
	DFØHMT	2
	DFØQH	1
	Total – 45	
EA8RM	EA9RM	34
	EA8IM	11
	Total – 45	

Table 6. Representative sample of busted spots found in CW logs

Being an Explorer — The RWØA Contest Story

The successful performance of UCØB in the Multi-Distributed category in last year's CQWW WPX CW contest stimulated our Siberian team (Krasnoyarsk, RWØA; Novosibirsk, RC9O; Tomsk, R8IZ; Kemerovo, RT8U; and Prokopievsk, UA9UR) for another experiment. This time, we decided to try the new CQWW category for Multi-Multi stations — M/M Explorer. The new category promised new possibilities. Why not try it?

All the distributed team positions had improved their antenna setups during the summer. A simple analysis of spring contests showed that the number of participants from YB on 21 MHz became larger than the traditionally active group of JAs! At RWØA, we built a new 2x5-element Yagi stacked beam antenna fixed at 135°, to take advantage of all the YB signals coming into our QTH. We also installed another 2x5-element 21-MHz system fixed into the direction of Europe. The guys from RT8U built a Spitfire antenna for 80 meters, switchable to EU/AS. The team from UA9UR also improved their stacked beams for 21 and 28 MHz. Not to be outdone, RC9O used a large crane to repair his 3-element 160-meter antenna.

Even with all the station improvements, we were realistic about achieving a top score. We simply hoped to have a lot of fun operating in the Explorer category with a multi-QTH distributed team. This pushed us to prepare and participate in all of the contest action.

Similar to the CQWW WPX, we organized a DXLOG network of 17 computers along with a central server located in Kemerovo. Our band-by-band operating schedule for each QTH (RUN and S&P) was made based on propagation analysis and the review of our logs from previous CQWW contests. The concept remained the same — maximize the time of operation from RWØA on each band with a minimum of three transmitters simultaneously. We also utilized permitted networked resources such as KiwiSDR and WEBSDR for remote receiving and for our own signal checking, which helped us to move a RUN station from position to position and stay away from bad frequencies.

The first 10 hours of the contest were especially exciting. Our QSO summary rate did not go below 400 per hour and actually hit more than 500 per hour with more than 15 QSOs per minute a few times! The 40-meter band turned out to be very effective and was open almost all the time except for two hours on Sunday morning when the level of our signals in EU dropped to almost zero. The first night surprised us with good propagation on 20 meters. We logged NA stations for about 2 hours, which



Explorer Team staffing the station from RWØA.

TIME [UTC]		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		14/15		15/16		16/17		17/18		18/19		19/20		20/21		21/22		22/23		23/24		24/25		25/26		26/27		27/28		28/29		29/30		30/31		31/01		01/02		02/03		03/04		04/05		05/06		06/07		07/08		08/09		09/10		10/11		11/12		12/13		13/14		1	

A Youthful CQWW

BY SVEN, DJ4MX (19 years old!)

is usually very rare. It was also unusual to see the QSO rate on the 80-meter band being nearly the same as 20 meters. The ionosphere was quiet for the whole contest, so we had good openings on the 21- and 28-MHz bands during daytime.

There is no contest without Mr. Murphy playing jokes on us. The team at Kemerovo had to repair a Beverage antenna during a cold night in the forest. One of the amplifiers became intermittent in Krasnoyarsk. Our team members in Prokopievsk were spending time fixing a high-voltage power supply. But every problem we encountered was successfully overcome by the team. In the end, we finished with 13,000 QSOs and 24M points on Monday morning!

Of course, we have lots of log data, but here is the rough distribution of QSOs for each station:

RWØA: 4,000 QSOs

R8IZ: 2,700 QSOs

RC9O: 2,550 QSOs

RT8U: 1,700 QSOs

UA9UR: 1,700 QSOs

Perhaps even more exciting was the fact that we had 27 Siberian operators participating on the “**Central Siberia DX Club**” team from five positions:

RWØA: RAØAM, RAØAAC, RØAI, RGØA, RMØA, RUØA, RUØAM, RVØAR, RWØAR, RZØAT, UAØAPV, UFØB

RC9O: RC9O, UA9PM, RA9P

R9IZ: R9IR, RM9I, RU9I, RC9HB, RC9HC

UA9UR: RW9USA, RV9UP, UA9UR

RT8U: RZ9UN, RK9UE, RA9USU, RX9UK

We hope it was not our last team effort. Thank you to all who called us and who answered our calls! Special thanks to the teams of CR3W and TKØC who stimulated us to concentrate and work harder!

– 73, Leonid, RAØAM, on behalf of the RWØA team



CQWW CW Low Power Youth champion, Sven, DJ4MX, ready for action.

This past CQWW was my first serious entry in the world's best contest. It was a blast! Although having received my license in 2017, I officially fell in love with CW contesting just 18 months ago.

My initial strategy was to participate with a Multi-Op team. The plan was that my dad (DJ2MX) and I travel to Bosnia and join the Multi-Single team at E7DX. Unfortunately, we had to cancel the trip, so I decided to try out the new Youth overlay as a single operator from our home station in Munich after my dad found a local club station to use. With just a few days to go and the contest rapidly approaching, I was really motivated to get the best results possible. My goal was to operate more than 40 hours, even though I had never previously operated so many hours. But, before the contest even started, I unknowingly made the mistake of going into the contest with 15 hours of “awake time.”

After the first 24 hours and having 1,200 QSOs in my log without a break, I was thrilled to see what was possible with 100 watts from our modest station. Additional motivation came from my real-time standing in the online scoreboard. As a result, I somehow got the crazy idea to operate the next 24 hours without a break! But, even at my young age of 19 years, it wasn't easy! Within just a few hours after my crazy idea began, I struggled to stay awake, hoping for sunrise and the expectation that daylight and new action on the high bands would keep my eyes open. My wish came true as the band was filled with JAs on 15 meters, keeping me really busy. However, the inevitable feeling of tiredness came again as I fell asleep a few times, albeit for only one or two minutes.

It turned out that the last four hours were the hardest, and especially the 35 minutes right before the end of the contest. At that point, I decided to stop, because I was simply too tired to get any new QSOs into my log. In the end, however, I logged almost 2,200 QSOs with my logging program showing an operating time of 47:26 hours, an accomplishment that makes me especially proud.

The new youth overlay is a great addition to the CQWW, and I really hope it gets more people of my age into CW operating and contesting overall. Thanks for a great contest and see you in the next one!

– 73, Sven, DJ4MX

CLUB SCORES

UNITED STATES

Club	# Entrants	Score
FRANKFORD RADIO CLUB .....	.271	407,770,996
YANKEE CLIPPER CONTEST CLUB .....	.250	370,916,531
POTOMAC VALLEY RADIO CLUB .....	.256	189,861,299
SOCIETY OF MIDWEST CONTESTERS .....	.175	87,903,698
SOUTHERN CALIFORNIA CONTEST CLUB .....	.76	72,709,639
FLORIDA CONTEST GROUP .....	.96	67,807,030
NORTHERN CALIFORNIA CONTEST CLUB .....	.99	54,156,776
NORTH COAST CONTESTERS .....	.22	54,073,386
ARIZONA OUTLAWS CONTEST CLUB .....	.70	39,771,679
MINNESOTA WIRELESS ASSN .....	.131	37,759,237
TENNESSEE CONTEST GROUP .....	.50	31,910,518
SOUTHEAST CONTEST CLUB .....	.49	28,838,318
CENTRAL TEXAS DX AND CONTEST CLUB .....	.28	25,692,346
WILLAMETTE VALLEY DX CLUB .....	.54	20,213,427
DFW CONTEST GROUP .....	.41	17,737,700
MAD RIVER RADIO CLUB .....	.30	16,378,060
ALABAMA CONTEST GROUP .....	.30	15,884,909
NE MARYLAND AMATEUR RADIO CONTEST SOCIETY .....	.36	14,777,587
BAY AREA DXERS .....	.17	14,564,287
GRAND MESA CONTESTERS OF COLORADO .....	.36	14,221,240
HUDSON VALLEY CONTESTERS AND DXERS .....	.33	12,823,759
WESTERN WASHINGTON DX CLUB .....	.49	12,791,964
SWAMP FOX CONTEST GROUP .....	.26	11,431,180
CAROLINA DX ASSOCIATION .....	.27	11,172,920
KENTUCKY CONTEST GROUP .....	.24	9,401,579
NIAGARA FRONTIER RADIOSPORT .....	.22	8,489,032
GEORGIA CONTEST GROUP .....	.5	7,590,051
SPOKANE DX ASSOCIATION .....	.26	6,497,770
KANSAS CITY CONTEST CLUB .....	.14	6,299,259
BIG SKY CONTESTERS .....	.7	6,092,283
TEXAS DX SOCIETY .....	.15	5,036,406
THE VILLAGES AMATEUR RADIO CLUB .....	.16	4,067,968
DEEP DIXIE CONTEST CLUB .....	.12	3,410,596
ROCHESTER (NY) DX ASSN .....	.20	3,315,558
CWOPS .....	.11	3,185,108
NORTH TEXAS CONTEST CLUB .....	.8	3,181,429
CTRI CONTEST GROUP .....	.10	3,015,399
HILLTOP TRANSMITTING ASSN .....	.5	2,770,354
ARKANSAS DX ASSOCIATION .....	.9	2,605,417
NORTH CAROLINA DX AND CONTEST CLUB .....	.7	2,529,857
SILVER SPRINGS RADIO CLUB .....	.7	2,477,214
BRISTOL (TN/VA) ARC .....	.12	2,149,655
LOUISIANA CONTEST CLUB .....	.5	1,858,218
NORTHEAST WISCONSIN DX ASSN .....	.7	1,779,098
IOWA DX AND CONTEST CLUB .....	.4	1,555,877
FORT WAYNE RADIO CLUB .....	.6	1,404,188
MILFORD OHIO AMATEUR RADIO CLUB .....	.4	1,337,064
MOTHER LODE DX/CONTEST CLUB .....	.13	1,075,694
KANSAS CITY DX CLUB .....	.7	1,022,235
MERIDEN ARC .....	.12	969,594
SOUTH JERSEY RADIO ASSOCIATION .....	.8	957,908
BELLBROOK AMATEUR RADIO CLUB .....	.6	846,494
CENTRAL VIRGINIA CONTEST CLUB .....	.4	667,945
SOUTHWEST OHIO DX ASSOCIATION .....	.7	517,459
METRO DX CLUB .....	.9	491,973
MISSISSIPPI VALLEY DX/CONTEST CLUB .....	.6	480,309
SKYVIEW RADIO SOCIETY .....	.5	450,775
NEW PROVIDENCE ARC .....	.7	450,104
HEARTLAND DX ASSOCIATION .....	.7	407,237
GREAT PLACES CONTEST CLUB .....	.4	383,541
PORTAGE COUNTY AMATEUR RADIO SERVICE .....	.4	352,904
NORTHERN ARIZONA DX ASSN .....	.5	256,341
ARC EMC COMM SRVC .....	.7	201,742
PANHANDLE AMATEUR RADIO CLUB .....	.4	189,493
ALEXANDRIA RADIO CLUB .....	.4	153,921
REDWOOD EMPIRE DX ASSOCIATION .....	.4	153,393
BOLINGBROOK ARS .....	.5	116,416
LAKE AREA AMATEUR RADIO KLUB .....	.5	91,387
STERLING PARK AMATEUR RADIO CLUB .....	.4	70,258
UTAH DX ASSOCIATION .....	.4	55,841
LONG ISLAND CW CLUB .....	.5	28,266
OH-KY-IN ARS .....	.4	22,080
NORTH SHORE RADIO CLUB IL .....	.4	13,942
DOWNEY ARC, INC .....	.4	6,438

DX

Club	# Entrants	Score
BAVARIAN CONTEST CLUB .....	.327	278,153,499
ITALIAN CONTEST CLUB .....	.269	235,056,854
RUSSIAN CONTEST CLUB .....	.130	156,872,655
EA CONTEST CLUB .....	.94	146,376,317
RHEIN RUHR DX ASSOCIATION .....	.168	133,767,930
CONTEST CLUB ONTARIO .....	.103	108,603,466
BALTIC CONTEST CLUB .....	.32	96,589,338
UKRAINIAN CONTEST CLUB .....	.181	82,061,536
ARAUCARIA DX GROUP .....	.72	71,544,438
CONTEST CLUB SERBIA .....	.57	55,249,019
CLIPPERTON DX CLUB .....	.27	53,297,454
CROATIAN CONTEST CLUB .....	.61	51,931,579
BELOKRANJEC CONTEST CLUB .....	.22	50,945,302
CONTEST CLUB FINLAND .....	.56	46,904,745
KAUNAS UNIVERSITY OF TECHNOLOGY RADIO CLUB .....	.56	38,388,482
LZ CONTEST TEAM .....	.4	37,166,882

Club	# Entrants	Score
LU CONTEST GROUP .....	.43	35,149,174
CONTEST CLUB BELGIUM .....	.60	34,049,850
HA-DX-CLUB .....	.18	32,419,199
LA CONTEST CLUB .....	.13	32,063,479
SP DX CLUB .....	.116	27,626,169
CHILTERN DX CLUB .....	.26	26,044,175
SLOVENIA CONTEST CLUB .....	.43	24,342,313
VK CONTEST CLUB .....	.41	21,201,613
RIO DX GROUP .....	.93	18,900,031
CZECH CONTEST CLUB .....	.30	16,854,397
CONTEST GROUP DU QUEBEC .....	.15	14,070,495
SOUTH URAL CONTEST CLUB .....	.19	13,559,356
LATVIAN CONTEST CLUB .....	.36	13,554,654
ORCA DX AND CONTEST CLUB .....	.39	13,445,966
BELARUS CONTEST CLUB .....	.31	12,944,628
CATALONIA CONTEST CLUB .....	.25	12,319,383
URAL CONTEST GROUP .....	.24	11,925,032
RSGB CONTEST CLUB .....	.11	11,418,058
SIAM DX GROUP .....	.23	10,560,938
NICOSIA CONTEST GROUP .....	.4	10,385,416
5NNDXCC .....	.35	10,280,120
CENTRAL SIBERIA DX CLUB .....	.8	10,095,623
MARITIME CONTEST CLUB .....	.16	9,786,894
RUSSIAN CW CLUB .....	.60	9,395,298
599 CONTEST CLUB .....	.18	9,118,325
BOSNIA AND HERZEGOVINA CONTEST CLUB .....	.9	8,845,795
WEST SERBIA CONTEST CLUB .....	.11	8,446,059
RTTY CONTESTERS OF JAPAN .....	.4	8,333,160
DANISH DX GROUP .....	.36	7,870,859
RADIO AMATEUR ASSOCIATION OF WESTERN GREECE .....	.6	7,664,042
NORFOLK AMATEUR RADIO CLUB .....	.13	7,340,880
ARCK .....	.32	6,761,842
INTEREST GROUP RTTY .....	.9	6,238,392
JSFC .....	.4	6,159,002
ASSOCIAÇÃO DOS RADIOMAÇORES DO PARANA .....	.10	6,098,997
THRACIAN ROSE CLUB .....	.43	5,822,661
VU CONTEST GROUP .....	.18	5,565,899
ARIPA DX TEAM .....	.10	5,564,713
ARABIAN GULF DX GROUP .....	.5	5,484,742
SKY CONTEST CLUB .....	.4	4,913,906
EUROPEAN DX CONTEST CLUB .....	.4	4,881,644
THREE A'S CONTEST GROUP .....	.9	4,859,892
CS PETROLUL PLOIESTI .....	.7	4,483,772
CE CONTEST GROUP .....	.16	4,338,929
GIPANIS CONTEST GROUP .....	.13	4,264,659
GMDX GROUP .....	.9	3,889,761
RADIOSPORT MANITOBA .....	.6	3,887,123
KEYMEN'S CLUB OF JAPAN .....	.44	3,699,668
COCKENZIE AND PORT SETON ARC .....	.6	3,586,290
SOUTHERN OSAKA CONTEST CLUB .....	.11	3,563,084
WORLD WIDE YOUNG CONTESTERS .....	.17	3,546,893
ORARI LOKAL KAB BOGOR .....	.12	3,509,079
IRKUTSK RADIO CLUB .....	.9	3,489,762
RADIOCLUBUL RADU BRATU .....	.6	3,471,437
YB-LAND DXING PASSION IS .....	.177	3,277,362
VERON A63 FRIESE WOUDEN .....	.4	3,134,327
RADIO CLUB BUNSCHOTEN .....	.5	2,833,168
ARKTIKA .....	.14	2,809,128
CDR GROUP .....	.39	2,739,356
VLADIMIR CONTEST GROUP .....	.12	2,677,874
UNION FRANCAISE DES TELEGRAPHISTES .....	.10	2,606,379
GUNMA CONTEST CLUB .....	.9	2,564,348
VYTAUTAS MAGNUS UNIVERSITAS RADIO CLUB .....	.14	2,533,688
SASKATCHEWAN CONTEST CLUB .....	.10	2,523,314
INDIOS DX TEAM .....	.4	2,164,210
CABREUVADX .....	.47	2,056,385
LITHUANIAN CONTEST GROUP .....	.5	2,023,742
UA2 CONTEST CLUB .....	.12	1,918,614
SHARKS DX TEAM .....	.10	1,916,718
SP-CW-C .....	.8	1,904,482
SANTIAGO DE CUBA CONTEST TEAM .....	.4	1,839,194
CLUB DE RADIO EXPERIMENTADORES DE OCCIDENTE .....	.6	1,786,914
IVANOVO DX CLUB .....	.7	1,785,165
KOREA DX GROUP .....	.6	1,763,126
SPANDAU DXERS .....	.8	1,748,043
UBRO .....	.8	1,711,397
RIIHIMÄEN KOLMOSET .....	.6	1,662,311
FUCHU AMATEUR RADIO CLUB .....	.10	1,644,540
S51DSW .....	.7	1,539,539
NORTHERN GREECE CONTEST TEAM .....	.4	1,521,633
DE MONTFORT UNIVERSITY ARS .....	.4	1,511,194
ZRHB .....	.7	1,462,083
YU1ANO & YU1TA CONTEST TEAM .....	.13	1,408,682
OKAYAMA DX CLUB .....	.10	1,408,539
VOT PZK .....	.13	1,384,626
STOCKPORT RADIO SOCIETY .....	.7	1,364,405
SAO PAULO CONTEST GROUP .....	.8	1,335,548
599 DX GROUP .....	.20	1,309,206
ALRS ST PETERSBURG .....	.11	1,287,414
YB LAND DX CLUB .....	.43	1,246,467
GUARA DX GROUP .....	.13	1,099,964
LKK LVIV SHORTWAVE CLUB .....	.15	1,073,219
RADIO CLUB VENEZOLANO CARACAS .....	.7	1,032,921
SHAKHAN CONTEST CLUB .....	.6	1,012,122
ALBERTA CLIPPERS .....	.4	953,081
NOVOKUZNETSK RADIO CLUB .....	.11	941,177
SK5AA VASTERAS RADIOKLUBB .....	.15	938,837
JAPAN LID CLUB .....	.4	924,735

Club	# Entrants	Score
DEBRECEN UNIVERSITY RADIO CLUB	.4	.864,001
HEREFORD AMATEUR RADIO SOCIETY	.8	.834,703
CSA STEAUÀ BUCURESTI	.5	.822,202
RU-QRP CLUB	.16	.798,630
KING'S LYNN AMATEUR RADIO CLUB	.6	.791,676
VERON A03 AMERSFOORT	.6	.785,402
UR-QRP-CLUB	.12	.772,916
GRUPO ARGENTINO DE CW	.5	.771,207
SK6AW HISINGENS RADIOKLUBB	.7	.770,722
ADMIRA ARAD	.8	.705,521
PEMBROKESHIRE CONTEST GROUP	.7	.695,610
NEWBURY & DISTRICT ARS	.5	.693,686
CWJF GROUP	.5	.692,597
VRZA VERENIGING VAN RADIO ZEND AMATEURS	.5	.689,331
JAPAN CONTESTER'S CLUB	.4	.640,637
YO DX CLUB	.12	.627,073
CSR BRAILA	.8	.621,403
CLUB RADIOAMATEUR VE2CWQ	.6	.621,080
SK6QA STENUNGSUND AMATEUR RADIO CLUB	.6	.616,239
YYP CLUB	.6	.608,284
UNIO DE RADIOAFICIONATS DEL VALLES ORIENTAL	.4	.551,730
RADIO CLUB VENEZOLANO	.4	.544,248
R4F-DX-G	.5	.532,936
BAHIA DX GROUP	.4	.523,895
SWINDON & DISTRICT AMATEUR RADIO CLUB	.4	.522,919
KRIVBASS	.7	.521,491
MDXC	.4	.484,963
GERMAN DX FOUNDATION	.6	.484,561
VOLYN CONTEST GROUP	.7	.476,521
OBNINSK QRU CLUB	.5	.452,223
YB6_DX COMMUNITY	.18	.437,561
9M HF & DX CONTEST GROUP	.6	.428,839
CHILEAN PACIFIC DX GROUP	.8	.428,620
CMDXGROUP	.14	.411,162
FALCONS DX GROUP	.13	.391,654
BLACKWOOD & DISTRICT AMATEUR RADIO SOCIETY	.4	.388,086
SK6EI SKOVDE AMATORRADIOKLUBB	.6	.387,420
RADIO CLUB KVARNER RIJEKA	.11	.384,169
JUST FOR FUN CONTEST CLUB	.8	.356,914
NATIONAL CHILDREN'S PALACE	.8	.355,559
CSM BOTOSANI	.6	.346,674
CWSP	.8	.338,966
CS SATU MARE	.4	.337,055
RUSSIAN DIGITAL RADIO CLUB	.7	.327,051
MOSCOW RADIO CLUB	.4	.321,296
MEDITERRANEO DX CLUB	.8	.317,731
SHARP HAM CLUB	.5	.317,614
GRUPO DXXE	.10	.300,336
OK QRP KLUB	.6	.294,354
7A DX-CONTEST CLUB	.10	.290,486
LA-DX-GROUP	.5	.282,047
CSM CRAIOVA	.6	.281,569
LITTLE GUN CLUB	.4	.280,432
FIFTH OCEAN	.5	.274,652
GRIMSBY AMATEUR RADIO SOCIETY	.4	.271,399
SAYAN DX CLUB	.6	.268,561
PHILIPPINE AMATEUR RADIO LEAGUE	.7	.267,709
VFDL	.4	.255,610
GLoucester AMATEUR RADIO & ELECTRONICS SOCIETY	.4	.254,558
HARWELL AMATEUR RADIO SOCIETY	.4	.242,342
Y03KEX	.4	.235,085
TDR	.4	.209,821
TORBAY ARS	.6	.209,461
CS SILVER FOX DEVA	.5	.185,345
MISSISSAUGA ARC	.4	.182,942
SP9PGE	.4	.172,204
TALL TREES CONTEST GROUP	.6	.161,339
DONBASS CONTEST CLUB	.4	.153,822
KOREA CONTEST CLUB	.5	.134,571
MUMBAI AMATEUR RADIO INSTITUTE	.7	.122,545
KIROVOGRAD REGION RADIO CLUB	.4	.10,790
SPORT CLUB MIERCUREA-CIUCA	.4	.108,262
YB7-DX CLUB	.15	.106,891
LA4O	.4	.102,028
ECHELFORD ARS	.4	.99,238
DX1EVM SCAN INTERNATIONAL	.6	.95,686
TRAC	.5	.94,229
THE AKITA DX ASSOCIATION	.7	.91,987
SP9PBB	.5	.87,822
CSM CLUJ-NAPOCA	.4	.68,187
LOMZA AND DISTRICT RADIO SOCIETY CONTEST GROUP	.4	.67,484
IFM DX-TEAM	.4	.63,360
RADIO CLUB DE PANAMA	.4	.55,717
RADIO CLUB ETERNAUTAS	.6	.55,298
HAMILTON ON ARC (AGGREGATE)	.5	.55,259
DX1EVM SCAN INTERNATIONAL	.5	.47,315
G8AMC	.4	.44,930
ORARI LOKAL KEDIRI	.18	.44,594
SPDXT	.5	.34,934
ORARI LOKAL BOGOR	.5	.34,808
SATARA INSTITUTE OF HAMS	.4	.34,026
EDIT14	.5	.30,066
BOGOR DX CLUB	.5	.25,220
SINGLE FIGHTER DX GROUP	.5	.22,776
NORTHEAST RADIO GROUP	.4	.21,356
OLDHouseradioclub	.4	.8,326
LABRE-RS	.4	.2,259

coming from bad Cluster spots (and the occasional RBN reporting error) (see *Table 6*). I'll admit, especially when you are in search & pounce (S&P) mode, that it's tempting to engage in the "click, work, next" mode of operating. What's missing? LISTEN! As with previous years, there were literally thousands of bad calls in submitted logs that came from logging a bad call on the screen vs. the one that was actually being used on the air. Taking a few extra seconds to listen and ensure you have it right is just good operating!

Some Thoughts From Your Director

Well, after countless hours of work, thousands of text and email messages, phone calls, Zoom sessions, and other methods of communicating, I'm happy to say the results for the 2021 CQWW contest season are now complete. I'm proud of the progress we have made as a committee in advancing the state of the art in log-checking as each year more progress is made to ensure the results that we publish are as accurate as possible. It's almost unfathomable to think of the days of paper logs and checking without computers. But we are still years away from simply hitting a magic function key to generate the results that you read each year. Manual intervention is inevitable as we strive to "get things right."

One piece of advice I can offer to everyone — experienced or not — is to be sure to read the rules as there are almost always a few updates from one year to the next. A significant number of warnings were issued to some entrants this year that came from their lack of reading and understanding the rules of the game.

As I mentioned in the SSB results, one of the ongoing challenges we face continues to be the lack of recording your audio during the contest as clearly stated in the rules for top competitors. My suggestion is to view this requirement as a tangible way to improve your operating skills vs. a burdensome act by the log-checkers. I learn something new every time I listen either to my own recordings or those of someone else. Don't put yourself in the position of being reclassified (or worse) if asked to supply this log-checking tool that we use, albeit on rare occasion, when needed.

Some Closing Words

Unfortunately, I only get two opportunities per year to publicly offer my sincere thanks to a special group of dedicated contestants — the CQWW Contest Committee. With respect and great pride I acknowledge the following members who helped produce the results you are reading: CT1BOH, José Nunes; EA4KD, Pedro Vadillo; ES5TV, Tonno Vahk; F6BEE, Jacques Saget; GØMTN, Lee Volante; HA1AG, Zoli Pitman; IK2QE1, 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 Brajnik; S5ØXX, Kristjan Kodermač; UA9CDC, Igor Sokolov; VE3EJ, John Sluymer; VK2IA, Bernd Laenger; and YO3JR, Andrei (Andy) Ruse. Without a doubt, this is the best team in all of contesting!

As I finish writing these results, the Solar Flux Index is sitting at 101 (156 two weeks ago!). Indeed, the sun has come to life, creating great promise for another amazing CQWW this year. I hope to hear you on SSB on October 29th and 30th and CW on November 26th and 27th, 2022!

– 73, John, K1AR