

CW Results of the 2022 CQ World Wide DX Contest

The CQ WW Contest Continues to be Phenomenal!

"It still amazes me what fun you can have with just a piece of wire"–M6W (G3WW)

BY JOHN DORR,* K1AR

The U.S. Department of Commerce reports that in 1948, the average cost of a house in the United States was \$7,700. Gasoline averaged about 16 cents per gallon. A loaf of bread cost 14 cents. And you were a well-paid employee if you were making \$2950 per year. It turns out that on November 5-7, 1948, the first CQ WW CW contest also took place (ironically, now the scheduled weekend for the ARRL CW Sweepstakes contest). Like the price of bread, inflation has impacted the WW. In its first year, approximately 550 CW logs were received with the winning entry coming from GI6TK, who posted a final score of 452K (817 QSOs/31 Zones/66 countries). It is indeed amazing to examine our CQ WW roots in what most will agree is amateur radio's premier operating event.

Needless to say, today's CQ WW contest continues to fill the bands. And, with Cycle 25 well underway, that's especially the case on the high bands, including the favorite choice of many, ten meters! What a treat it was to return to the land of 28 MHz and hear signals filling the entire band from one end to the other.

Although the number of submitted logs was slightly down from last year, I'm pleased to report that we still received 7700 logs, representing 4.6M QSOs. The overall accuracy of your log submissions continues to hold steady with a median average error rate of about 2.7% resulting in reductions averaging about 8.8% after penalties. Yes, there's always room for improvement.

One area of the contest that I especially enjoy reviewing is the soapbox comments that many of you include with logs. You can see them for yourself at: <<https://cqww.com/soapboxcw.htm?yr=2022>>. Here's just a small sample of what you'll find:

"Didn't have the time, but, even 5 minutes of CQWW CW is worth it! Till the next year." – EA1PJ.

"This is my 1st CW try. Thank you." – JK3OTH.

"I even had a decent run on 15 Saturday morning. Who says an indoor mag loop doesn't work?" – KV8O

Let's get on with the results!

Another Year of Incredible CQ WW Contest Operating!

Producing a final score that makes the leader table in the CQ WW contest results is a tremendous achievement

*Email: <cqk1ar@gmail.com>



This is BD3TE operating from one of the three sites used in their BY3CQ Explorer multi-op effort in the 2022 CQ WW CW Contest.



Here is the innovative AA7JV "rig-in-a-box" technology used in the remotely-run C6AGU Multi-2 operation.

regardless of operating category. As we experienced in the 2022 contest, some of those scores simply boggle the mind. The World Single Op battle was won again by Juan, EA8RM, with a 14.6M point final result, beating out Andy, N2NT, who came in second at 13.3M. Losing by only 1.3M, however, from a “2-point” country is a significant achievement, nevertheless.

The U.S. Single Operator, All-Band results are perhaps the highlight of the 2022 contest. Kevin, N5DX, operating remotely from the N2QV superstation produced an incredible final score of 11.6M, racking in nearly 5900 QSOs, shattering the 8-year-old record of K3CR (operated by LZ4AX) by over 1 million points. Kevin averaged 123 QSOs/hour for the entire 48 hours of the contest, operating in every one

2022 CQWW DX PLAQUE WINNERS AND DONORS

SINGLE OPERATOR, ALL BANDS

World
Juan Hidalgo, EA8RM
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
Zvi Stessel, 4X6FR
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
Larry G Schimelpfenig, K7SV
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
Steve Sluz, NY3A
Donor: LA8W/LN8W & LA Contest Club

U.S.A. - Zone 3
NO6T (Opr.: Axel W Bruderer, K16RRN)
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
Gediminas Lucinskas, LY9A
Donor: Sergio Cartoceti, IK4AUY - I4FAF Memorial

Europe - Assisted
Jon Zumalabe, EA2W
Donor: IR4X Monte Capra Contest Team - I4IND Memorial

Europe - Assisted Low Power
ES7A (Opr.: Kristjan Kaas, ES7GM)
Donor: John Rodgers, WE3C

Africa
3B9KW (Opr.: Kazunori Watanabe, M0CFW)*
Donor: Ralph “Gator” Bowen, N5RZ - K5KA Memorial

Asia
C4W (Opr.: Marios Nicolaou, 5B4WN)
Donor: DFW Contest Group - W5PG Memorial

Carib./C.A. - High Power
V47T (Opr.: Andrew Blank, N2NT)
Donor: DFW Contest Group - W5PG Memorial

Carib./C.A. - Low Power
VP2MJA (Opr.: Dennis Gasparotto, VA3WB)*
Donor: Albert Crespo, NH7A

Oceania
9M6NA (Opr.: Saty Nakamura, JE1JKL)
Donor: Ken Hoppe, KH7R

Oceania - Assisted
Ron Schiltmans, DU3T
Donor: Koa Contest Club, Hawaii

South America
Alexey Ogorodov, HC2AO
Donor: Dave Farnsworth, WJ2O

South America - Southern Cone (CE, CX, LU)
LW1F (Opr.: Jesus Rubio, LU5FC)
Donor: Dale Long, N3BNA

Scandinavia (LA, OH, OZ, SM)
OH0Z (Opr.: Tomi Ylino, OH6EI)
Donor: Chas Weir, Jr., W6UM - W3FYS Memorial

Baltic (ES, LY, YL)
Agris Belasovs, YL2VW
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
VE3MIS (Opr.: John Rudy Koren, VA3JK)
Donor: Maritime Contest Club - VE1AL Memorial

Japan - High Power
Masa Okano, JH4UYB
Donor: Phil Yasson, AB7RW

Japan - Assisted
Hajime Hazuki, JR2GRX
Donor: Aki Nagi, JA5DQH

ASEAN (XZ, HS, XW, XU, 3W, 9M, 9V, V8, YB, DU)
V85RH (Opr.: Hajime Kato, JO1RUR)*
Donor: Champ C. Muangamphun, E21EIC - SIAM DX GROUP

ASEAN (XZ, HS, XW, XU, 3W, 9M, 9V, V8, YB, DU) - Assisted
Galih Suryananto, YC2VOC*
Donor: Champ C. Muangamphun, E21EIC - SIAM DX GROUP

SINGLE OPERATOR, SINGLE BAND

World - 28 MHz
D4L (Opr.: Luca Aliprandi, IK2NCJ)
Donor: Joel Chalmers, KG6DX

World - 21 MHz
KH7Q (Opr.: Jim Neiger, N6TJ)
Donor: CWOps

World - 14 MHz
Brian Edward, N2MF
Donor: North Jersey DX Association - W2JT Memorial

World - 7 MHz
Nick Hacko, VK9DX
Donor: John Rodgers, WE3C

World - 3.5 MHz
4L/LY4ZZ (Opr.: Algirdas Sadaunikas, LY2BMX)
Donor: Family of Fred Capossela, K6SSS

World - 1.8 MHz
Ilya Semichastnov, 4L9M
Donor: Kenneth Byers, Jr., K4TEA

U.S.A. - 28 MHz
Jay E. Camac, N4OX
Donor: John Rodgers, WE3C

U.S.A. - 21 MHz
Peter Blzlewicz, KU2M
Donor: Adrian Ciuperca, K08SCA
U.S.A. - 14 MHz
Dan Handa, W7WA*
Donor: Northern Illinois DX Association

U.S.A. - 7 MHz
Charlie Hansen, N0TT
Donor: Gene Shablygin, W3UA

U.S.A. - 3.5 MHz
Steven Sussman, W3GN
Donor: Bill Feidt, NG3K

U.S.A. - 1.8 MHz
Jeffrey T. Briggs, K1ZM
Donor: Jeffrey T. Briggs, K1ZM

Europe - 28 MHz
YU0T (Opr.: Branko Vidakovic, YU1WS)
Donor: Jay Pryor, K4OGG

Europe - 21 MHz
Leo N. Khoko, S50R
Donor: John Rodgers, WE3C

Europe - 14 MHz
OH8X (Opr.: Pasi Luoma-aho, OH6UM)
Donor: John Rodgers, WE3C

Europe - 7 MHz
Vladimir Pusec, OK1Z
Donor: Ivo Pezer, 9A3A

Europe - 3.5 MHz
IS0/OM2TW (Opr.: Richard Gasparik, OK8WW)
Donor: Frankford Radio Club - K3VW Memorial

Europe - 1.8 MHz
Laci Nemeth, OM5NL
Donor: Pat Barkey, N9RV & Terry Zivney, N4TZ

Asia - 14 MHz
Mamuka Kordzakhia, 4L2M
Donor: Ralph “Gator” Bowen, N5RZ - W5FO Memorial

Asia - 7 MHz
P35A (Opr.: Roman Thomas, 5B4AQN)
Donor: Rich Gelber, K2WR

Carib./C.A. (21 MHz)
WP4WW (Opr.: Jose A. Rivera-Salaman, KP4JRS)
Donor: David Hodge, N6AN

Canada (21 MHz)
Michael Smith, VE9AA
Donor: John Sluymer, VE3EJ - VE3TA Memorial

Japan - 21 MHz
Akito Nagi, JA5DQH
Donor: Bob Wilson, N6TV

Japan - 14 MHz
Syuichi Sato, JA7FTR
Donor: Charlie Morrison, N1RR - N1XS Memorial

OVERLAY CATEGORIES

World - Classic
KP2M (Opr.: Phillip Allardice, KT3Y)
Donor: CWops

of them! The horserace was much closer for the remainder of the top-10 U.S. SOAB scores, with Greg, W1KM, delivering a second-place result of 7.5M, a huge increase from his first SOAB effort of 1.8M points back in 1979.

Domination is also the operative word for the World LP group, as Bud, AA3B demolished the competition with an amazing score of 12.9M. Perhaps more impressive about

Bud's result is that he would have placed #3 in the world amongst the high power entries, all with only 100 watts! Location, station design, and operating skill all contribute to these amazing numbers.

Speaking of amazing, how about that QRP score from PZ5CO, who managed to produce a dominating 6.3M tally, generating over 4400 contacts? That's a new record that's

U.S.A. – Classic
Doug Grant, K1DGG
Donor: CWops

World – Rookie
Justin Ogle, N9TTK
Donor: CWops

U.S.A. – Rookie
Dennis Tune, W9DCT*
Donor: CWops

Europe – Rookie
Zdeslav Cerina, 9A5RTW
Donor: EA Contest Club

ASEAN (XZ, HS, XW, XU, 3W, 9M, 9V, V8, YB, DU) – Rookie
Manatchai Suwannasri, E25CRF
Donor: Champ C. Muangamphun, E21EIC - SIAM DX GROUP

World – Youth
Kees Van Oosbree, W0AAE
Donor: Zoli Pitman, HA1AG

North America – Youth
Maria Polyanska, VE3OMV*
Donor: IARU Region 2 for YOTA

Europe – Youth
William Eustace, M2WJE
Donor: IARU Region 1 Youth Working Group

South America – Youth
Leonardo Timoteo Silva, PY2POA
Donor: IARU Region 2 for YOTA

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

Asia – Youth
Jian'ang Zhu, BD4VGZ
Donor: YOTA Japan

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

World Single-Operator – Explorer
Oscar Vais, LU6OA
Donor: World Wide Radio Operators Foundation

World Multi-Operator – Explorer
OT7T (Oprs.: OP4K, OP5T, OQ4U, OT5Z, OR5T, OT6E, OQ5M, OO7J, ON4CAU, ON4FI, ON4IT, ON4PQ, ON5JT, ON5TN, ON5OO, ON5XX, ON7MV, ON7TK, ON9EEE, ON5RA)
Donor: World Wide Radio Operators Foundation

MULTI-OPERATOR, SINGLE TRANSMITTER
World
P33W (Oprs.: RA3AAU, RW4WR, LZ2HM, LZ3SM, EW1NY)
Donor: Friends of Rich - KL7RA Memorial

World – Low Power
FY5KE (Oprs.: F4CWN, F5HRY, FY5FY, F6FVY)
Donor: EA Contest Club

U.S.A.
K1LZ (Oprs.: AC1NU, K1LZ, K2SSS, K3JO, NA1NA, W1ADI, W2ID)
Donor: Douglas Zwiebel, KR2Q

U.S.A. – Low Power
W4KZ (Oprs.: W9SN, W9RNY)
Donor: CWOps

Africa
TY5AF (Oprs.: OH2TA, OH5BM, OH5LLR)
Donor: John Rodgers, WE3C

Asia

UP2L (Oprs.: R9CM, R9HBA, R9IR, RM9I, RU9I, UA9MA, UC9A, UN0L, UN0LM, UN6LN, UN7LZ, UN9L, UN9LG)*
Donor: Steve Merchant, K6AW

Carib./C.A.
ZF1A (Oprs.: NN1C, W9KKN, N5KO, N6MJ)
Donor: CWOps

Europe
LZ5R (Oprs.: LZ1NK, LZ1YQ, LZ1ZF, LZ2BE, LZ2PL, LZ2XA, LZ3ND, LZ3ZZ, LZ5DB, LZ5DD, YO9WF)
Donor: Gail Sheehan, K2RED

Europe – Low Power
IB9T (Oprs.: IT9BLB, IT9EJW, IT9GAC, IT9RZU, IT9VDQ)
Donor: Marco Holleyn, DJ4MH

Oceania
AH2R (Oprs.: NH2C, W13O)
Donor: Junichi Tanaka, JH4RHF

South America
PJ4A (Oprs.: K4BAI, KU8E, N8VW, PJ4NX)
Donor: Araucaria DX Group

Japan
JH8YOH (Oprs.: JR8VSE, JE8KXX)
Donor: Madison Jones, W5MJ

ASEAN (XZ, HS, XW, XU, 3W, 9M, 9V, V8, YB, DU)
7A2A (Oprs.: YB0ECT, YC1SDL, YB2DX, YB2XVT)
Donor: Bruce Frahm, K2BJ

MULTI-OPERATOR, TWO-TRANSMITTER

World
CR3DX (Oprs.: HA3NU, OM2VL, OM3BH, OM3GI, OM3RM, OM7LW)
Donor: Array Solutions

U.S.A.
W3LPL (Oprs.: W3LPL, N11N, K3MM, N3OC, N3QE, K3RA, NN3W, WR3Z, KD4D)
Donor: Robert Kasca, S53R

Europe
TK0C (Oprs.: S53CC, S53F, S53MM, S53RM, S53WW, S53ZO, S55OO, S57AL, S57C, S57K, S57L, S57VW)
Donor: D4C Monteverde Contest Team - IR4X Monte Capra Contest Team - I4EAT memorial

Carib./C.A.
HQ9X (Opr.: K1TR, K1XM, KQ1F, SM7IUN, W1UE)
Donor: South East Contest Club

South America
PJ4K (Oprs.: WA3LRO, K1XX, W4PA, W1MD, K3CT, G3NKC, GD4XUM, N3RD)
Donor: PJ4A Team (Jeff Clarke, KU8E and John Laney, K4BAI)

ASEAN (XZ, HS, XW, XU, 3W, 9M, 9V, V8, YB, DU)
E2A (Oprs.: 5B4AGN, DL3DXX, E20NKB, E21EIC, E25KAE, E29TGW, HS3PIK, HS4RAY, LA7JO, SM3DYU, VE3LA, W2YR)
Donor: Champ C. Muangamphun, E21EIC - Siam DX Group

MULTI-OPERATOR, MULTI-TRANSMITTER

World
CN3A (Oprs.: OK1CZ, OK1FFU, OK1GI, OK1GK, OK1HGM, OK1JKT, OK1MV, OK1NY, OK1RI, OM6NM, CN8WK)
Donor: The K2GL Operators - K2GL Memorial

U.S.A.
K3LR (Oprs.: N8AMY, K3LR, WF7T, K3UA, N2NC, W2RQ, N3SD, N9RV, K4RO, N6TV, KG5HVO, N3GJ, VE3RA)
Donor: Ham Radio Outlet - W6RJ & N6RJ Memorial

Europe
9A1A (Oprs.: 9A5W, 9A9A, 9A6A, 9A7R, 9A5E, 9A3SMS, 9A8A, 9A2EU, 9A6M)
Donor: SRAL (Finnish Amateur Radio League – OH2SB Memorial)

Africa

CR3W (Oprs.: DJ2YA, DK7YY, DL1CW, DL5AXX, DL5CW, DL5LYM, DL7UGN)*
Donor: EA9EO Memorial

Asia
A44A (Oprs.: A41JZ, IK1YDB, IK2PFL, IK1HJS, SV5DKL, IK1QBT, A45TT, A45VU, A41CK)
Donor: Nodir Tursun-Zade, EY8MM

CONTEST EXPEDITIONS

World Single Operator
3B9KW (Opr.: Kazunori Watanabe, M0CFW)
Donor: Friends of Phil - N6ZZ Memorial

World Multi-Operator
K8H (Oprs.: W7YAG, K7AR)
Donor: CWOps

SPECIAL AWARDS

World SSB/CW Combined Unassisted
P40T/VE2IM (Opr.: Yuri Onipko, VE3DZ)
19,859,532
Donor: Hrane Milosevic, YT1AD

U.S.A. SSB/CW Combined Unassisted
Ed Sawyer, N1UR
9,733,666
Donor: Bob Shohet, KQ2M

Europe SSB/CW Combined Unassisted
OM7K (Opr.: Richard Tucek, OM7RU)
6,751,357
Donor: Marko Myllymaki, N5ZO

Europe SSB/CW Combined – Low Power
Jiri Cernoch, OK2MBP
2,265,354
Donor: EU1AA Memorial

Triathlon Award - World RTTY/SSB/CW Combined
VE3DZ/P40T/VE2IM (Opr.: Yuri Onipko, VE3DZ)
22,277,204
Donor: DX Lodge Roatan (HQ9X)

Triathlon Award - Europe RTTY/SSB/CW Combined
Branislav Hacko, YT3D
6,682,943
Donor: Bavarian Contest Club – LX1WW Memorial

World Combined SSB/CW Score 160 Meters
OK4U (Opr.: Tom Stepnicka, OK1TP)
63,891
Donor: Team IB9T/IR9Y - IT9ZYG Memorial

World Combined SSB/CW Score – Multi-Operator, Multi-Transmitter
CN3A (Oprs.: IK2QEI, OK1RI, IK2SGC, IZ1LBB, IZ2ZOZ, OM6NM, OK1NP, OK1DO, OK6RA, OM1RI, OK1VVT, CN8WK, OK1CZ, OK1FFU, OK1GI, OK1GK, OK1HGM, OK1JKT, OK1MV, OK1NY)
91,428,337
Donor: Friends and Family of Gene – N2AA Memorial

CLUB SCORES

U.S.A. SSB/CW
Frankford Radio Club
464,027,502
Donor: Northern California Contest Club

DX SSB/CW
Bavarian Contest Club
347,677,055
Donor: John Rodgers, WE3C

* Second Place

2022 CQWW DX CW TOP SCORES

WORLD SINGLE OPERATOR HIGH POWER

All Band	
EA8RM	14,633,647
V47T (N2NT)	13,330,347
CR6K (CT1ILT)	12,835,488
N5DX (@N2QV)	11,640,105
VE2IM (VE3DZ)	10,460,793
VY2TT (K6LA)	9,215,920
EF6T (EA3M)	9,008,166
TO5Z (N6GQ)	8,092,887
W1KM	7,496,808
XL3T (VE3AT)	7,468,593
28 MHz	
D4L (IK2NCJ)	1,142,280
EF8BBM (EA4BQ)	989,050
LW1F (LU5FC)	934,362
OA4O (EA7TN)	906,803
5Z4VJ	667,183
JS6TSE	667,183
(JM1UWB)	
KH7M (KH6ZM)	495,992
YU0T (YU1WS)	433,596
LU2D (LU2DX)	397,578
YU7EE	394,130
YU7EE	310,365
21 MHz	
KH7Q (N6TJ)	859,856
@KH6YY	
VE9AA	667,440
KU2M	658,360
K3VR	633,840
S5OR	629,788
N5AW	614,295
TM6X (F5VHY)	584,982
JA5DQH	572,040
WP4WW	572,040
(KP4JRS)	557,190
RC3U	550,246
14 MHz	
N2MF	930,560
OH8X (OH6UM)	846,612
DM0A (DK3DM)	764,005
4L2M	586,432
JA7FTR	458,234
W7WA	406,262
JR2SCJ	343,560
KW9A	329,814
XE1CT	324,736
YT7B	322,344
7 MHz	
VK9DX	1,005,471
OK1Z	791,700
P35A (5B4AQN)	756,069
OM2XW	701,415
EA8/GU4YOX	654,500
(GU4YOX)	654,500
OM5R (OM5WW)	633,984
JR2OVNR	566,568
JA6SHL	406,575
R4SA	194,292
LZ7M (LZ5VK)	151,286
3.5 MHz	
4L/LY4ZZ	520,498
(LY2BMX)	520,498
IS0/OM2TW	429,282
(OK8WW)	429,282
G4FNL	258,520
S53X	252,700
W3BGN	126,400
OK1TN	118,141
K9ZO	94,256
DK2CF	79,776
YL7A	77,995
IR2R (I22EWR)	71,682
1.8 MHz	
4L9M	153,738
NP2J (K8RF)	101,844
VE3ZI	91,572
K1ZM	48,807
VE3PN	45,155
WF2W	36,267
OK4U (OK1TP)	36,167
M6N (M0NPK)	29,610
YO3APJ	27,880
HL5IV	24,360
LOW POWER	
All Band	
V26K (AA3B)	12,962,248

Y3A (IZ3EYZ)	5,079,492
HC2AO	4,572,040
VP2MJA	4,428,456
(VA3WB)	
K7SV	3,507,995
K1BX	2,798,455
6Y6N (DK9PY)	2,638,840
VP5M (K4QPL)	2,610,374
K1VUT	2,140,261
N4TZ	2,078,676
28 MHz	
CX2AQ	439,161
HI3Y	351,540
CS2C (OK1RF)	308,826
PR1T (PY1ZV)	295,390
4K6FO	258,000
NP3A	253,692
JA2KKA	249,984
LZ4TX	236,880
HZ7C (7Z1SJ)	213,226
L50DY (LW3DG)	185,031
21 MHz	
N8II	503,276
FR8UA	456,710
S50A	375,804
EU8U	369,895
YT9W	330,625
JA6WFM	237,060
WB4TDH	232,624
JR3EOI	231,894
W6YX (N7MH)	221,186
OA4DX	207,466
14 MHz	
PY2NY	394,822
DL9ZP	191,565
DL4AAE	175,336
EW1TZ	174,432
IK4MTF	140,049
ON3PAT	130,416
NU8A	118,854
JH0EPI	112,700
GD5F (GD4RFZ)	108,847
R3AQ	108,480
7 MHz	
OM3ZWA	172,500
C56DF (G3XTT)	120,967
IV3EAD	118,762
OH9SE (OH9HDH)	104,412
LZ1BP	103,014
OK2HBR	92,926
HA9RP	89,712
YO5ODT	86,016
DK4LX	81,002
JR0BQD	69,445
3.5 MHz	
OK5D (OK1DTP)	135,072
OL5J (OK1RZ)	77,120
CO2AN	77,117
CO2JD	66,898
SP3JUN	62,694
E77BW	50,504
DL6KWN	42,490
S57X	35,280
IK2ULV	34,386
HB9CPS	33,924
1.8 MHz	
OM5NL	57,304
SM6CNN	51,675
LC9X (LA9XGA)	20,124
OK1MNV	19,719
HA4N	19,656
MONDZ	17,700
EA4IE	14,310
DL0MCM	12,255
(DL6KWN)	12,255
RA3UAG	11,825
UF5A	10,545
QRP	
All Band	
PZ5CO	6,335,373
KR2Q	1,375,470
LY9A	1,078,742
DK7HA	888,440
JHI0G	576,232
JR4DAH	493,344
DL1MAJ	490,560
HA5BA	482,895
N8AA	371,616
K8MR	369,460

28 MHz	
4F3OM	101,181
OM7PY	41,031
US5VX	31,450
F8AKC	24,081
YO6EX	20,367
NH6O	17,888
CO6EC	13,158
HF5WIM	12,934
G3L (G3LHJ)	10,035
W7USA	9,947
21 MHz	
LZ2RS	114,885
HA3JB	92,340
JQ1NGT	54,320
YV5EN	52,850
JR1NKN	50,220
EA2BO	46,720
M7R (G0TPH)	43,092
JR2EKD	26,432
SP4NJK	25,704
G3YMC	23,973
14 MHz	
FS/K0CD	124,236
RT4W	65,270
JE1RZR	65,145
YU1RK	50,320
DL2TM	39,591
G2X (G0DCK)	25,593
YO4BEX	18,360
DH1AKY	12,818
SP2HMY	7,750
EA3BES	5,720
7 MHz	
YU1RA	104,839
OK6OK	70,752
DM2DZM	38,511
F5MOG	34,444
GM1J (MM0BQI)	30,528
HA3GC	28,880
M3F (G3WZD)	28,248
OK1LO	12,862
UT5UUV	7,050
IZ5OVP	3,864
3.5 MHz	
YT5YTT	43,736
YO8RAA	22,836
SM6DOI	18,135
IO5K (IK5TBK)	17,216
SP8OOE	11,289
YO8RIY	9,744
DMOY (DH8BQA)	8,046
G3YHF	7,990
OH1RX	7,696
UT1WW	5,236
1.8 MHz	
GM3YEH	19,740
LY4T	12,432
UR5FEO	10,200
DL1A0B	8,850
HA1TI	7,200
IK1RAC	1,408
OU2V (OZ1FJB)	1,404
IZ00RT	660
UR0FF	342
OH5LAQ (OH5CW)	40
SINGLE OPERATOR ASSISTED HIGH POWER	
All Band	
P44W (W2GD)	13,457,875
K5ZD	11,150,100
EA2W	9,184,725
VA2WA	9,157,896
K3WW	8,659,726
SN7Q (SP7GIQ)	8,641,836
K1ZZ	8,631,612
UW1M (UR5MW)	8,197,727
KP3DX (NP4Z)	7,212,387
II2S (IK2QEI)	7,005,284
28 MHz	
LU8DPM (LW8DQ)	935,887
LT6M (LU8MHL)	779,160
CX2BR	762,669
9A5Y (9A7DX)	648,200
4L8A	628,269
PY4BZ	527,498
HA3LN	518,064

9A5D (9A5DU)	517,820
KV2K (K2NG)	478,950
Z35T	477,795
21 MHz	
V31CQ (K5PS)	942,704
XQ1KZ	927,055
4X1MM	919,181
HA5JJ	848,144
OM8CW	845,920
S5OK	826,920
YT0Z (YU1ZZ)	755,650
YT9A	753,666
SN2M (SP2XF)	730,334
RL3A (RL3FT)	675,078
14 MHz	
DL6FBL	1,002,840
YT3X	984,725
HG0Y (HA7GN)	921,519
UB7K	890,928
HA8A (HA8DZ)	880,821
K8CX	854,712
OM0M (OM3CGN)	849,680
OL9Z (OK2PVF)	834,716
S57Z	819,408
S57DX	818,832
7 MHz	
SN3A (SO2GXO)	1,233,900
S53M (S51FB)	1,111,352
OK6W (OK1MU)	1,069,752
S51YI	943,428
S52AW	916,994
VE3VN	896,124
NH7T (@KH6YY)	875,550
S57WJ	762,528
KA1IS	757,044
R3ZZ	729,570
3.5 MHz	
HA1TJ	493,878
MW5B (G3WVG)	478,682
YL9W (YL3DV)	438,360
LZ6Y (LZ1MC)	421,448
SN2B (SP2MKI)	405,444
OL3A (OK1DX)	361,383
DJ0MDR	307,051
PA1CC	284,440
9A8M (9A3XU)	267,159
OM5CM	247,200
1.8 MHz	
S51V	164,808
YL9FT	147,402
S53O	138,123
R9PS	126,522
RX3APM	113,565
HA8BE	86,480
SP3HLM	79,900
S56X	79,650
RG2A	76,077
DM7C (DL6CX)	75,650
LOW POWER	
All Band	
4X6FR	7,837,438
ES7A (ES7GM)	5,379,230
NY3A	4,856,628
ON4Q (UA4Z)	4,261,446
PP5BZ	3,670,056
DJ5MO	3,457,212
KS1J	3,393,390
OL5Y	3,390,340
OL9B (OK6FRA)	3,357,746
OH0V (OH6LI)	3,256,152
28 MHz	
AH6KO	391,482
FR8TZ	284,513
EA6SX	263,755
XQ3WD	261,600
PY4XX	256,891
HK1N	240,670
HG0R (HA0NAR)	235,445
4X0A	228,872
PY2RSA	220,528
PY7RP	168,087
21 MHz	
UN4L	423,913
V55Y (V51WH)	400,320
CT7/DL6IAK	378,099
EE5K (EA5DF)	329,935
ED7O (EA7EU)	310,488

BA5CW	300,989
JF3BFS	276,479
OM5KM	263,702
W9XT	256,452
TA2DA	250,070
14 MHz	
9Z4Y	599,250
IR9R (IT9WDC)	407,805
RA9AP	403,106
YU5M	346,560
M6W (G3WW)	323,856
OL3R (OK1VVK)	318,164
IZ8EFD	256,168
EA3IN	250,062
G4ERW	232,224
E7AA (E73AA)	185,328
7 MHz	
YT2AAA	424,700
YU7WW	346,527
EU2F	336,746
ES7GN	325,304
HA7I (HA7JTR)	312,002
CO8ZZ	276,471
OM3TZZ	271,414
VE9BK	236,680
OM5ALL	194,951
YT2B	189,552
3.5 MHz	
S57AW	169,592
4Z4KX	147,760
YO5AVN	136,344
E79D	130,707
YU1ED	92,652
Z3	

A44A20,965,527
LZ9W20,944,836

**EXPLORER
SINGLE-OP
HIGH POWER
All Band**

LU6OA1,053,592
SP5ATO290,920
C6AZT258,336
S53K211,024
WX8S189,666
OH2XX38,872
NØUJT31,824
K7RB18,715
YO2GL15,714

**EXPLORER
MULTI-OP
HIGH POWER
All Band**

OT7T16,360,290
ZM1A14,301,232
C6AGU12,615,785
EA4URE9,150,408
YPØK3,758,307
ZL3X3,533,658
BY3CQ1,232,763
EA6URL534,567

**ROOKIE
HIGH POWER**

N9TTK2,770,979
9A5RTW1,051,050
W9DCT723,976
EI6LA637,096
K3AK266,485
EA4HQV181,300
HA5MIG143,312
EA5JDN44,400
KD2UBH7,107
JK1BAB238

LOW POWER

KY4ID710,973
VA3OKG689,913
EA4HKF596,755
KY4GS573,016
AEØDX443,368
VE3KOT359,968
KD2ZEL204,930
UBØAZR201,894
4X6FB170,841
JK1AUY155,220

**CLASSIC
HIGH POWER**

KP2M (KT3Y)5,145,882
ED8M (EA8DIG)4,758,704
K1DG4,278,254
KQ2M3,935,016
VA2EW3,648,886
3B9KW3,386,060
(MØCFW)3,195,840
N4AF3,143,880
OHØZ (OH6EI)3,121,938
DL2CC3,121,938
YT3D3,085,780

LOW POWER

K1BX2,798,455
VP5M (K4QPL)2,610,374
9A1AA1,748,028
K3AU (K2YWE)1,324,632
DL2NBU1,272,866
CR5O (CT7AJL)1,189,875
EA8CN1,180,098
HA5PP1,171,698
EA4KD1,166,241
4U1UN1,146,831
(KØ8SCA)1,146,831

**YOUTH
HIGH POWER**

WØAAE2,272,125
MØWJE341,880
SA6NIA163,780
EI8KW133,575
HA3MAR13,132

LOW POWER

BD4VGZ571,200
VE3OMV268,641
IUØLJD220,884
DL7PIA180,400
BH2SWB159,274

YD2UWF134,820
YL3JA119,528
DS1TUW102,227
BI4MPH39,697
DK1YH36,372

**UNITED STATES
SINGLE OPERATOR
HIGH POWER
All Band**

N5DX
(@N2QV)11,640,105
W1KM7,496,808
N2IC5,956,685
NO6T (KI6RRN
@WA6TQT)5,767,692
N1UR5,697,900
NR3X (N4YDU)5,681,676
W9RE5,346,486
NN7CW5,192,950
NA8V4,876,106
K1DG4,278,254

28 Mhz

N4OX275,709
N5YT109,383
AH2O39,600
AF2F36,210
K4RDU35,752
W9OP35,700
NC4S15,642
K1IB4,114
K7IU324

21 Mhz

KU2M658,360
K3RV633,840
N5AW614,295
W6YA480,240
N6KN198,153
WØYK171,308
N4KS165,792
K5QR155,477
NIØK44,088
K7NT15,890

14 Mhz

N2MF930,560
W7WA406,262
KW9A329,814
W7UT47,430
W3AKD12,675
KØQEJ8,517
WØTY2,812
AK5Y204

7 Mhz

NØTT111,320
WØ3Z51,709
K8GU49,708
NIØC21,462
N7RK10,498
K2AF5,967
W7ID2,310
AA8BV1,593
AA2DT1,239

3.5 Mhz

W3BGN126,400
K9ZO94,256
W1HI55,250
KØPJ32,802
W6RKC663
K5IB627

1.8 Mhz

K1ZM48,807
WF2W36,267
W1HIS3,552
WA1BXY2,430

**LOW POWER
All Band**

K7SV3,507,995
K1BX2,798,455
K1VUT2,140,261
N4TZ2,078,676
WW4XX (LZ4AX)1,884,008
K3AU (K2YWE)1,324,632
N1DC1,063,474
K1HT894,704
W1NN859,527
AA8CA823,768

28 Mhz

N4AO (WC4E)104,440

AB1J61,290
W4RYW58,996
N4NM44,620
W8JGU34,408
KD2P29,308
NIØG26,980
WNØL13,293
K2CS12,300
W2YK12,208

21 Mhz

N8II503,276
WB4TDH232,624
W6YX (N7MH)221,186
WA7BNM115,696
K4AM65,320
WB9HFK59,994
AF8A49,364
N6RM36,244
WA8ZNC28,014
W9QL25,050

14 Mhz

NU8A118,854
W8GOC33,930
N8ET30,342
K1EFI29,835
W2TZ27,542
NW4V16,100
N7SE3,800
W3EH2,160
W6YOY1,421
AA1ZX510

7 Mhz

K9UIY61,812
W4TJM25,661
AC8CE11,172
W8NNC2,232
KA9A725
KT5LA660
K15PED598
KW4FAB104
K6AUS48
WS5D12

3.5 Mhz

KC4WQ814
KE6GLA112

1.8 Mhz

WD8DSB1,704
N8UX70

**QRP
All Band**

KR2Q1,375,470
N8AA371,616
K8MR369,460
W6JTI357,744
AC2YD285,056
WB2CPU209,520
W6QU (W8QZA)160,461
NDØC156,891
K4PQC152,342
N7RCS123,402

28 Mhz

W7USA9,947
K3UT7,800
N1AIA7,084
N3HCN4,625
WA6FGV3,770
K5JT1,000
NØJK60

21 Mhz

KF4AV22,126
WW2G (WU2M)18,711
KEØTT13,195
WC7S8,601
AB8DF2,310

14 Mhz

N5GSG32

7 Mhz

WA2NYY1,917

**SINGLE OPERATOR
ASSISTED
HIGH POWER
All Band**

K5ZD11,150,100
K3WW8,659,726

K1ZZ8,631,612
N3RS6,928,620
W8FJ6,698,250
AB3CX6,593,694
N2YO6,471,840
AA1K6,379,416
K1AR6,214,725
N2SR5,889,646

28 Mhz

KV2K (K2NG)478,950
N6SS252,453
N4ZR222,080
K5KG218,694
K4WI144,378
NE8P208,953
W8AV135,346
N2OO113,088
W4DD92,628
AG9S59,202

21 Mhz

WB9Z571,704
AA7A490,889
N7AT (K8IA)459,669
N9CO438,353
N7DD427,400
W7RN (K5RC)383,396
NC1CC290,440
W2AW (N2GM)253,614
K7SS231,750
KE4S150,930

14 Mhz

K8CX854,712
N7TU116,348
K7PI56,854
WA5YOM39,144
KA6BIM26,574
NN3W10,800
AA2EQ8,424
K3KEK3,420
K4MQM1,400
KE4KDY756

7 Mhz

KA1IS757,044
K7NJ423,500
WK1O399,355
W9PA340,650
N7KU (N6D)261,513
N9AU149,467
N7WA146,520
W9RN103,936
AD8J69,984
NI2M60,495

3.5 Mhz

K9GS225,375
W3NO132,374
K3MM80,928
W4PK27,335
W5JMW7,008

1.8 Mhz

K5UR12,749
K2KW11,387
N9AW3,040
W6XI966
W7RH740

**LOW POWER
All Band**

NY3A4,856,628
KS1J3,393,390
W3KB2,286,526
W1QK1,957,005
KG9X1,949,480
N1EN1,946,819
WE9R1,794,654
NS3T1,549,776
WO1N1,540,962
N4XL1,504,956

28 Mhz

N1DG138,861
N3UA101,673
W9LY63,852
AA4LS62,062
KKØU60,096
K6AAM29,388
K1NY16,920
K3STX9,536
N2WLG6,808
W6JPL (K6ICS)540

21 Mhz
W9XT256,452
WA1FCN178,553
N5JR148,626
W2UP123,625
WV7S21,574
W3IDT14,000
WØBF11,375
N2BEG8,100
N3TTT1,000

14 Mhz

W1ZZ64,414
N2EIM38,064
K1IG33,250
N7ESU5,311
NNØJS20

7 Mhz

AA4NP112,980
K9JY55,120
K1IM44,270
W1FIF35,520
K3ORC19,604
NS4T15,246
NN4RB6,040
K9MCK2,414
N4ELC1,247
NSSS405

3.5 Mhz

N4IJ54,238
KØKT14,012
K7LU5,125
KTØP434
NR1K132

**QRP
All Band**

KA4RRU985,226
K8ZT538,800
KB9RPG89,414
KW2A62,088
W4ER55,872
W7RY52,805
KU4A39,294
WQ6X15,480
KJ4YM8,614
W6SIY8,362

28 Mhz

KE1AK12,036
W3EK5,633
NV1W88

21 Mhz

K6JS80,172

14 Mhz

K3TW63,420
KO1H33,580
W1IE33,535
W2VRK31,980
K9AXT6,975
NBURE2,241
KC1DVT1,364
K2GMY760
K6BBQ195

7 Mhz

KQ2RP5,074

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

K1LZ16,690,848
KC1XX14,063,840
W2FU10,907,217
K8AZ8,472,700
K9RS8,034,042
K5TR7,530,566
KQ2F6,754,100
W7RM5,193,500
W9VW4,599,000
AA9A4,119,580

**LOW POWER
All Band**

W4KZ5,619,065
AD4ES3,517,458
K3AJ2,725,236
W3ZGD1,634,886
NX6T1,504,413
W4TG732,672
K1RQ715,176

KT4XA604,116
W5WZ144,536
W6DER17,459

**MULTI-OP
TWO-TRANSMITTER
All Band**

W3LPL19,462,500
N4WW11,418,402
K9CT11,255,326
N2AA10,162,074
K2AX9,029,108
K2LE8,974,852
ND7K7,923,960
W4NF7,593,597
K8LX7,156,592
W2CG5,944,647

**MULTI-OP
MULTI-TRANSMITTER
All Band**

K3LR23,705,156
K1TTT16,173,416
K1RX14,347,200
KØRF9,555,724
N1RR8,576,325
N6RO6,739,395
K1KI5,149,575
W2AA4,856,334
K3PH4,055,000
WT3K3,129,540

**EXPLORER
SINGLE-OP
HIGH POWER
All Band**

WX8S189,666
NØUJT31,824
K7RB18,715

**ROOKIE
HIGH POWER**

N9TTK2,770,979
W9DCT723,976
K3AK266,485
KD2UBH7,107

LOW POWER

KY4ID710,973
KY4GS573,016
AEØDX443,368
KD2ZEL204,930
KC3SVR48,094
W1FIF35,520
K12D26,106
W3OY22,680
N3HRO11,730
KO4AWC4,816

**CLASSIC
HIGH POWER**

K1DG4,278,254
KQ2M3,935,016
N4AF3,195,840
K2NV2,404,448
K1RU2,115,195
K4ZW1,962,281
NØAX1,583,163
K9MA1,523,743
KZ5D1,513,926
W1JQ1,420,510

LOW POWER

K1BX2,798,455
K3AU (K2YWE)1,324,632
N1DC1,063,474
K1HT894,704
W1NN859,527
NØUR747,994
NK4O620,961
W6TK533,392
K2ZR521,236
N8II503,276

**YOUTH
HIGH POWER**

WØAAE2,272,125

LOW POWER

K4IEY15,652
KØ4GOF6,550
NR1K132

likely to stand for some time (replacing the 1999 5.0M point effort of P40W (W2GD operator).

While on the subject of Aruba, perennial CQ WW operator, W2GD, won the assisted SOAB category from P44W, racing to a 13.5M point win, beating out 1410 other competitors in that operating class. Randy, K5ZD, delivered a #2 World result at 11.1M, from his improved Uxbridge, MA, station.

The Classic overlay continues to grow in popularity, largely in keeping with the overall advancement of our communities' average age! Phil, KT3Y, beat them all with an outstanding 24-

hour result of 5.1M. There's a lot to be enjoyed from an investment of only 24 hours in operating time. As a reminder, you can continue to operate beyond the 24-hour period, while still submitting a valid Classic score. You'll note in the results that many Classic entries are also listed elsewhere in the line scores with higher numbers, reflecting this operating approach.

The titans of contesting, multi-op stations, continued to populate the bands. The P33W team showed everyone how to effectively run a Multi-Single operation, delivering a 25.5M final result. The Multi-Two race was also an impressive display of talent as the CR3DX team handily beat out the emerg-

Table 1

Op Hrs	AF	AS	EU	NA	OC	SA	ALL	% of all	Cum %
0.1 - 5	9	133	342	293	24	18	819	16.5%	16.5%
5.1-10	2	140	478	389	23	18	1050	21.1%	37.6%
10.1-15	6	102	437	340	18	17	920	18.5%	56.0%
15.1-20	4	121	350	227	15	16	733	14.7%	70.8%
20.1-25	3	82	276	217	10	15	603	12.1%	82.9%
25.1-30	-	59	160	118	9	6	352	7.1%	90.0%
30.1-35	-	32	98	95	3	3	231	4.6%	94.6%
35.1-40	1	27	63	50	3	1	145	2.9%	97.5%
40.1-45	-	12	39	36	1	5	93	1.9%	99.4%
45.1-48	2	5	16	4	3	1	31	0.6%	100.0%
ALL	27	713	2259	1769	109	100	4977	100.0%	
Median Hours	10.7	13.8	13.6	12.9	10.9	14.3	13.3		

Table 1. Operating Time by Continent in the 2022 CQ WW CW Contest

2022 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
EA8RM	288/10/47	943/20/70	1721/29/83	1344/26/82	2186/31/95	2113/32/98
V47T	268/13/47	947/20/73	1953/32/91	1868/31/94	2188/32/94	1702/24/82
*V26K	154/9/23	896/17/86	1901/31/96	1616/29/89	2516/32/96	1758/24/84
CR6K	533/16/59	1218/25/84	2338/32/99	1846/31/94	2175/29/98	1443/28/86
N5DX	99/16/56	703/18/76	1859/34/110	1274/34/110	1127/28/99	809/24/96

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
N5DX	99/16/56	703/18/76	1859/34/110	1274/34/110	1127/28/99	809/24/96
W1KM	85/12/45	704/18/74	1067/26/83	1002/27/92	932/24/86	699/21/76
N2IC	26/10/16	133/22/51	1166/36/92	569/33/93	1252/33/108	536/28/71
NO6T	19/9/10	215/22/41	1173/35/97	811/34/99	962/34/101	662/28/67
N1UR	68/11/34	436/17/66	857/24/87	774/28/95	591/24/91	790/22/86

WORLD SINGLE OPERATOR ASSISTED ALL BAND

Station	160	80	40	20	15	10
P44W	174/15/42	619/23/86	1222/32/112	1069/36/114	1394/33/118	1776/30/114
K5ZD	88/15/51	501/22/87	1446/32/118	1097/38/127	1110/31/121	753/28/110
EA2W	87/14/55	687/26/90	1501/36/124	1201/36/119	1076/37/129	732/37/122
VA2WA	354/15/58	616/21/86	1201/29/105	1043/36/118	1028/29/114	601/29/104
K3WWW	42/13/25	369/20/82	1164/29/113	1036/36/118	1111/29/118	685/25/101

USA SINGLE OPERATOR ASSISTED ALL BAND

Station	160	80	40	20	15	10
K5ZD	88/15/51	501/22/87	1446/32/118	1097/38/127	1110/31/121	753/28/110
K3WWW	42/13/25	369/20/82	1164/29/113	1036/36/118	1111/29/118	685/25/101
K1ZZ	67/14/49	342/22/88	1140/34/119	964/35/123	819/31/123	487/28/115
N3RS	60/13/42	224/19/77	849/33/112	818/36/122	646/31/118	699/29/108
W8FJ	73/16/50	353/21/83	1007/33/115	791/35/121	697/30/120	251/27/99

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

Station	160	80	40	20	15	10
P33W	380/21/77	1112/33/112	2283/39/133	2166/38/140	1917/39/142	1755/36/141
ZF1A	251/18/60	836/24/89	2465/36/127	2097/37/127	2126/36/130	1614/31/117
LZ5R	100/24/82	1150/35/119	2515/38/135	2306/38/136	1630/37/141	1172/36/135
PJ4A	185/16/55	282/25/86	2566/36/123	1303/37/124	1404/35/123	1621/34/114
UP2L	261/15/60	1233/32/109	2358/38/133	1360/38/130	1280/36/128	961/28/100

USA MULTI-OPERATOR SINGLE TRANSMITTER

Station	160	80	40	20	15	10
K1LZ	161/20/71	899/30/108	2016/37/132	1462/38/140	1195/34/129	984/29/120
KC1XX	93/21/71	838/27/103	1902/36/131	1046/38/135	997/31/125	898/28/120
W2FU	60/16/58	546/26/94	1446/36/120	1141/35/128	999/32/123	724/26/107
K8AZ	50/15/48	343/23/86	1080/35/121	1042/36/125	943/29/120	448/28/106
K9RS	45/15/44	456/22/85	890/33/110	1159/35/127	722/30/123	536/28/106

WORLD MULTI-OPERATOR TWO TRANSMITTER

Station	160	80	40	20	15	10
CR3DX	462/18/73	1671/33/107	3377/36/130	2646/38/135	3557/37/139	3068/36/141
PJ4K	198/17/48	1293/27/93	3374/36/128	2678/39/136	3297/36/130	2133/33/119
TKOC	967/20/78	2325/33/108	3471/37/133	2688/37/129	3005/37/140	1776/35/131
W3LPL	107/19/62	1101/28/103	2195/38/129	1758/37/132	1839/35/137	1113/29/116
P44X	65/15/33	754/24/87	1657/32/111	2088/36/119	2524/35/124	1772/32/110

USA MULTI-OPERATOR TWO TRANSMITTER

Station	160	80	40	20	15	10
W3LPL	107/19/62	1101/28/103	2195/38/129	1758/37/132	1839/35/137	1113/29/116
N4WW	76/14/49	560/25/92	1277/36/128	1103/37/131	1505/34/127	654/30/119
K9CT	65/16/36	507/26/82	1542/36/127	1428/36/129	1316/32/126	541/29/103
N2AA	59/14/41	423/21/87	1360/33/115	1130/33/117	1225/29/121	692/28/102
K2AX	76/14/43	462/21/85	883/29/109	1007/35/123	1066/31/123	826/26/109

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

Station	160	80	40	20	15	10
CN3A	931/21/75	2206/30/102	3453/36/130	3561/38/137	3290/38/139	3267/37/130
CR3W	816/22/71	1946/29/104	3265/36/130	3439/39/139	2975/37/143	2849/35/128
PJ2T	575/18/66	1450/30/97	3251/33/121	3129/37/125	3533/36/125	2242/32/109
3B8M	305/14/53	719/32/94	1859/36/118	2900/38/130	3212/38/135	2985/33/122
9A1A	1385/28/94	2058/32/113	3570/39/142	2777/38/139	2179/38/143	1129/36/132

USA MULTI-OPERATOR MULTI-TRANSMITTER

Station	160	80	40	20	15	10
K3LR	223/23/70	1229/29/100	2403/38/137	2642/37/144	2076/35/139	1201/30/126
K1TTT	226/19/66	897/26/93	1698/34/115	2044/36/130	1629/31/118	1055/28/116
K1RX	267/14/52	799/24/91	1245/30/109	1947/37/136	1497/32/122	989/29/108
K0RF	71/14/29	311/25/71	1294/35/124	1425/37/125	1213/33/125	686/32/101
N1RR	37/11/21	405/21/80	594/30/110	1102/34/119	1433/29/114	822/27/109

ing PJ4K group with a final tally of 39.6M. In the U.S., Frank, W3LPL's team, has joined the ranks of the Multi-Two competition, placing #4 in the world at 19.4M.

The World Multi-Multi battle was intense this year as the head-to-head battle between CN3A and CR3W continued. The gang at CN3A took top honors this year with an amazing result of 44M, representing over 16,700 QSOs! CR3W

was indeed on their heels but falling just short at 41M. The team at K3LR won the U.S. fight, also placing #6 in the world with 23.7M points.

Our enthusiastic Youth and Explorer groups continued to enjoy their newfound status in the results. While youth activity on CW was relatively low, it continued to grow as word spreads about the availability of awards and other incentives

Table 2

Category	AF	AS	EU	NA	OC	SA	ALL	% of Total
SOAB High (A)	6	127	557	689	13	19	1,411	26.8%
SOAB High (U)	7	137	193	249	27	4	617	11.7%
SOAB Low (A)	4	147	645	371	20	39	1,226	23.3%
SOAB Low (U)	9	271	727	402	39	31	1,479	28.1%
SOAB QRP (A)	1	10	49	14	2	2	78	1.5%
SOAB QRP (U)	-	21	88	44	8	5	166	3.1%
Explorer-Multi	-	1	4	1	2	-	8	0.2%
Explorer-Single	-	2	4	4	-	1	11	0.1%
Multi-2	1	5	27	18	2	3	56	1.1%
Multi-Multi	4	8	11	12	4	1	40	0.8%
Multi-Single High	1	18	66	29	3	9	126	2.3%
Multi-Single Low	-	7	34	11	1	1	54	1.0%
ALL	33	754	2,405	1,844	121	115	5,272	100.0%
% by continent	0.6%	14.3%	45.6%	35.0%	2.3%	2.2%	100.0%	

Single band entries not included in analysis

Table 2 – Entry Category Analysis by Continent for 2022 CQ WW CW

EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
CR6K	533/16/59	1218/25/84	2338/32/99	1846/31/94	2175/29/98	1443/28/86
EF6T	459/12/51	1385/24/77	2065/28/86	1541/31/76	1994/31/89	938/24/60
EB7A	165/11/45	721/19/70	1840/24/82	1493/28/73	1351/25/69	862/23/63
YR8D	251/11/45	1026/21/74	1295/28/81	1598/28/82	1471/32/89	265/24/65
G9W	142/8/37	654/17/67	1315/33/86	1298/31/81	1026/33/95	591/30/80

EUROPE SINGLE OPERATOR ASSISTED ALL BAND

EA2W	87/14/55	687/26/90	1501/36/124	1201/36/119	1076/37/129	732/37/122
SN7Q	299/18/67	833/32/98	1182/36/119	1016/35/109	1113/36/123	427/36/119
UW1M	109/11/44	635/15/70	2526/35/119	1434/34/117	1120/34/113	820/32/115
II2S	196/15/62	583/27/92	1067/37/126	1039/35/117	589/35/114	526/36/118
HG8R	236/16/62	693/24/86	1441/34/111	1019/33/113	672/33/105	206/33/97

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

LZ5R	100/24/82	1150/35/119	2515/38/135	2306/38/136	1630/37/141	1172/36/135
OM7M	228/25/85	1051/31/113	2357/39/136	2011/38/137	1370/36/136	946/37/128
TM6M	198/17/70	836/29/103	2356/39/132	2087/38/134	1596/38/138	959/35/129
IR4M	133/18/73	977/34/109	2034/37/128	1790/38/130	1171/36/131	959/37/131
E7DX	237/21/80	708/32/108	2371/37/132	1529/37/133	1904/35/135	752/37/133

EUROPE MULTI-OPERATOR TWO TRANSMITTER

TK0C	967/20/78	2325/33/108	3471/37/133	2688/37/129	3005/37/140	1776/35/131
EF2X	411/17/70	1581/31/107	2483/38/127	1863/38/131	2428/38/139	1202/36/127
ED1R	446/19/76	1321/27/95	2575/36/124	2048/37/131	2217/38/134	1160/34/122
OL3Z	329/16/62	1601/32/109	2109/38/132	1852/37/120	1131/36/133	813/36/123
II9P	295/19/68	1326/30/100	2402/36/122	1504/38/110	1809/37/130	1099/35/125

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

9A1A	1385/28/94	2058/32/113	3570/39/142	2777/38/139	2179/38/143	1129/36/132
YT5A	1071/22/81	2204/36/119	3451/39/141	2619/38/133	1998/36/136	1292/37/135
M6T	991/20/78	2181/35/119	3755/38/139	2588/39/142	1781/36/136	1443/35/137
LZ9W	1053/16/72	1986/34/121	3304/37/133	2718/39/126	2138/36/134	1238/36/124
DF0HQ	1010/22/81	1982/33/116	2892/37/138	2042/36/138	1302/37/138	829/36/139

Our enthusiastic Youth and Explorer groups continued to enjoy their newfound status in the results.

TOP SCORES IN VERY ACTIVE ZONES

Zone 3	G9W (MØDXR)6,439,264
NO6T (KI6RRN @WA6TQT).....5,767,692	GM5X (GM4YXI)5,227,544
K6XX3,127,850	Zone 15
K6NA2,228,208	*IY3A (IZ3EYZ)5,079,492
WJ9B1,669,910	OM7K (OM7RU)3,716,190
K6NR1,099,185	9A2AJ3,342,054
Zone 4	OHØZ (OH6EI)3,143,880
XL3T (VE3AT)7,468,593	YT3D3,085,780
N2IC5,956,685	Zone 20
W9RE5,346,486	YR8D (YO8TTT)6,494,840
NA8V4,876,106	C4W (5B4WN)5,985,396
WXØB (AD5Q)4,041,994	*YR2X (YO2LEA)986,870
Zone 5	LZ7J (LZ1CI)940,005
N5DX (@N2QV)11,640,105	P35A (5B4AQN)756,069
VY2TT (K6LA)9,215,920	Zone 25
W1KM7,496,808	JH4UYB4,296,240
N1UR5,697,900	JF2QNM2,183,103
NR3X (N4YDU)5,681,676	DS4EOI1,969,034
Zone 14	*JA1BJI1,839,410
CR6K (CT1ILT)12,835,488	*J11RXQ1,816,920
EF6T (EA3M)9,008,166	
EB7A6,719,692	

*Low Power



Ben Buettner, DL6RAI (P44X), John Crovelli, W2GD (P44W), and Wolf Klier, OE2VEL (P44X) meeting (l-r) at Linda's Dutch Pancake House in Aruba for breakfast after the 2022 CQ WW CW contest.

Table 3

Call (Operator)	Continent	Power	Raw QSOs
ZD7BG	AF	HIGH	1410
ED8M (EA8DIG)	AF	HIGH	3623
J11RXQ	AS	LOW	1601
9N7AA (S53R)	AS	HIGH	2811
JS1OYN	AS	LOW	1306
F5SGI	EU	LOW	1207
OZ8AE	EU	LOW	1103
YL2VW	EU	HIGH	2132
OK2MBP	EU	LOW	1854
DL8ULF	EU	LOW	1129
DL2NBU	EU	LOW	1690
EU4E	EU	HIGH	2282
LY9A	EU	QRP	1819
HB9ARF	EU	LOW	1615
LN3C (LB8DC)	EU	HIGH	2226
KR2Q	NA	QRP	1064
N2GC	NA	HIGH	1558
WW4XX (LZ4AX)	NA	LOW	1426
N2IC	NA	HIGH	3710
NB1N	NA	HIGH	1432
K1BX	NA	LOW	2181
K6NA	NA	HIGH	1664
K1DG	NA	HIGH	3395
VA1MM	NA	HIGH	1633
K4ZW	NA	HIGH	1631
V85RH (JO1RUR)	OC	HIGH	3060
WH7T (WH7W)	OC	HIGH	2308

SOAB Unassisted only
99+% callsign precision w/>1000 QSOs, listed in order of accuracy

Table 3 – Single Op Accuracy Champions (>1000 QSOs) for the 2022 CQ WW CW Contest

for this important part of our contest community. Congratulations to Kees, W0AAE, for powering his way to a 2.3M youthful World High victory. The innovation of the Explorers is also impressive as this small group of creative contesters demonstrate what can be done with emerging technologies and new approaches to operating.

Lastly, a shoutout goes again to the Frankford Radio Club and Bavarian Contest Club who continued their multi-year domination (7 straight years for FRC and 16 for the BCC) in the U.S. and DX club competitions.

Spending Time in the CQ WW CW Contest

The overwhelming majority of participants in the CQ WW do not operate a full weekend in the contest. In fact, that's one of the aspects of the event that make it special. Many of you simply operate as time allows, while you go up against different competitor – the demands of weekend life. On average, 13 hours appears to be the magical median number of operating time with over a third of you investing less than 10 hours. There's no doubt that age is also a factor as well. In the end, however, there were 9 "iron men" who operated for the entire 48 hours: HG8R, JH4UYB, N5DX, OL9R, RM5F, UW1M,

Table 4

Year	# DX Entities Active
2022	178
2021	177
2020	166
2019	198
2018	194
2017	201
2016	260
2015	248
2014	263

Table 4– Number of Active DX Entities in the 2022 CQ WW CW Contest

Table 5

Continent	# Logs Received
EU	20
AS	8
NA	5
OC	3
SA	1
ALL	37

Table 5– Total Number of Youth Entries Received by Continent in 2022 CQ WW CW Contest

V47T, YR8D, and YT7R. For the rest of us, that achievement is a distant memory, if having ever been achieved. Congrats to all, whether you worked 10 or 48 hours. As EA1PJ aptly stated in his soapbox comments, "...even 5 minutes of the CQ WW is worth it!"

Categories, Categories, Categories

In developing the analysis being reported in Table 2, one conclusion can be made: considerable support remains for both the assisted and unassisted single operator categories. A review of the data shows that 51.6% of all SOAB operators entered the assisted category while 42.9% chose to go without assistance (Note: This data does not reflect single-band entries). It's interesting to report that this split was not the case on SSB, where the Unassisted crowd won that battle. For now, the debate about combining single operators into one assisted/unassisted group will continue.

This Year's Accuracy Champions

The callsigns identified in Table 3 represent a list you want to be on. Each one of these operators achieved a major contest milestone – greater than 99% call-sign accuracy in their submitted logs for the 2022 CQ WW CW Contest. Put another way, if you logged 3000 QSOs, your log had to have less than 30 busted calls to be included. That's a fantastic accomplishment and one that demonstrates why each operator is consistently at the top of their game. Congratulations!

There's a Lot of DX to Work in the WW!

For reasons that no one fully understands, there has been a drop-off in total country participation in the CQ WW over the past decade. This statistic is in sharp contrast to the number of logs received and total active contest participants, which has steadily grown over the same period. In Table 4, you can see the impact from the COVID pandemic as most operators chose to stay home in 2020. And, while we are steadily coming back, there is a long way to go to reach the heydays of ten years ago. Perhaps, it a combination of economics and our aging population? No matter what, the heartbeat of the WW remains strong when one looks at activity overall.

The CQ WW Fountain of Youth!

Last year, we introduced a new overlay for the CQ WW, recognizing Youth oper-

ators that were 25 years old or younger. While the numbers are not large, Europe stands out as the leader of the global youth movement on CW (the same was true for SSB as well) as seen in Table 5. Keep spreading the word as we hope this opportunity for our youth continues to take off in future WW contests.

Some Speedy Operators!

In days gone by, we used to brag about our hard-earned ability to work 100 QSOs in one hour of the CQ WW. It was

one of those milestones that made you feel like you've graduated to a new level of operating skill. Now, with the advent of two-radio operating for many single operators, the numbers are now simply off the charts (see Table 6)! It's hard to say whether K3WW's 271 hourly rate or that of V47T (N2NT operator) working 345 QSOs in 60 minutes is the most impressive – one from the US and other from Zone 8. Or, perhaps that of PJ2T, who reigned in 638 contacts in one hour as a multi-multi operation. Regardless of

Table 6

Category (High)	CALL	Highest Hour	Category (High)	CALL	Highest Hour
SOAB (A)	K3WW	271	SOAB (U)	V47T	345
SOAB (A)	UW1M	264	SOAB (U)	CR6K	345
SOAB (A)	P44W	259	SOAB (U)	EF6T	321
SOAB (A)	ER1KAA	253	SOAB (U)	SOAB (U)	285
SOAB (A)	EA2W	252	SOAB (U)	N5DX	281
Category (Low)	CALL	Highest Hour	Category (Low)	CALL	Highest Hour
SOAB (A)	NY3A	193	SOAB (U)	V26K	296
SOAB (A)	OH0V	187	SOAB (U)	HC2AO	247
SOAB (A)	4X6FR	184	SOAB (U)	6Y6N	185
SOAB (A)	TA7I	183	SOAB (U)	K1BX	181
SOAB (A)	KP3N	182	SOAB (U)	VP5M	178
Category (QRP)	CALL	Highest Hour	Category (QRP)	CALL	Highest Hour
SOAB (A)	PC5Q	84	SOAB (U)	PZ5CO	255
SOAB (A)	SF0A	73	SOAB (U)	LY9A	107
SOAB (A)	IZ8JFL	73	SOAB (U)	FG/VE3RSA	81
SOAB (A)	DL1YAW	72	SOAB (U)	RZ4AZ	75
SOAB (A)	DM2M	71	SOAB (U)	OP4F	74
Category	CALL	Highest Total Hour	Category	CALL	Highest Total Hour
Multi-2	TK0C	592	Multi-M	PJ2T	638
Multi-2	CR3DX	488	Multi-M	CR3W	599
Multi-2	PJ4K	426	Multi-M	CN3A	581
Multi-2	HQ9X	395	Multi-M	M6T	549
Multi-2	W3LPL	393	Multi-M	3B8M	514
Category (High)	CALL	Highest Total Hour	Category (Low)	CALL	Highest Total Hour
MSH	P33W	419	MSL	FY5KE	231
MSH	LZ5R	402	MSL	9H6WW	202
MSH	ZF1A	390	MSL	WP3C	189
MSH	TM6M	370	MSL	IB9T	175
MSH	E7DX	322	MSL	W4KZ	167

Table 6 - High Hourly QSO Rates for the 2022 CQ WW CW Contest

how you view this data, there is one thing we is obvious – we have some amazing operators in our midst. Rate records for previous years are available on the cqww.com Web site.

Some Thoughts from Your Director

Well, another CQ WW contest is in the books. As with every year, incremental progress continues to be made in our log

checking capabilities although we are a long way from simply pushing a button to pop out the results. Our post-contest SDR recording capabilities have grown to the point that we can find and listen to virtually any QSO in the contest. Log checking software continues to advance, resulting in our ability to crosscheck nearly 94% of all submitted QSOs in the contest. A significant number beyond that can be verified with

Youthful Experiences in the CQ WW



Here is the smiling face of Youth operator Pia Wurster, DL7PIA, from her station in southern Germany.

My name is Pia (DL7PIA). I am 16 years old, having passed my Class A amateur radio license in July 2019, at the age of 12 years old. From the very first moment, I was fascinated and enchanted by amateur radio's exciting way of communications and the wide range of possibilities it offers (e.g., portable operations, different modes, building your own antennas, contests, etc.). Just a few months before the CQ WW CW Contest I decided to learn the Morse code, and immediately fell in love with CW from the very first moment. All this would not be possible without my great and very helpful friend, Mitch, KH6M. I would like to take this opportunity to thank Mitch for all of his help and support!!

In recent years I participated in some SSB contests. Now I was really excited and ready to experience how a CW contest would compare to one on SSB. In particular, I was curious if anyone would even be able to copy my call because I was working with only with a 100-watt Yaesu FT-991A and homemade wire loop and dipole antennas.

I started the big adventure in the 2022 CQ WW CW during the last weekend in November and it was incredible! My goal was to gain experience, to improve my CW skills, find out what's possible with a Morse key, an FT-991A and home-made wire antennas, work new and rare countries,

and above all, to have fun. It was really amazing how many stations were QRV during this weekend. In fact, one can call it DXers paradise!

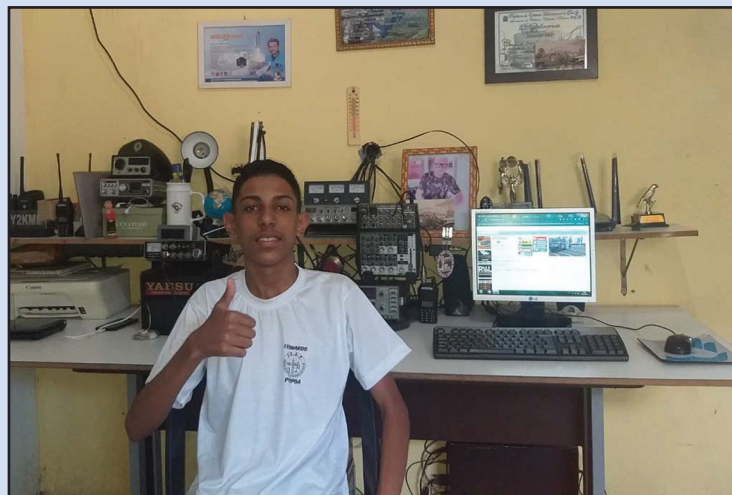
I really enjoyed the contest and had many nice and special QSOs with radio amateurs from the Turks and Caicos Islands, Greenland, Norfolk Island, Grenada, Guam, New Zealand, Australia, and Bahamas, to name just a few. I want to thank all of the stations who answered my calls. It was great to have a CW QSO with you! There is no comparable feeling like the moment when a station copies your call sign through a big pile-up or working a rare DX-station with simple homemade antennas.

I'm grateful to be a part of the big world of amateur radio and I'm looking forward to many more unforgettable QSOs with all of you!

73 & 88 de Pia, DL7PIA

My name is Leonardo (more commonly known as Léo) and I live in the city of Poá, Brazil, where I received the callsign, PY2POA, to honor my city and the former owner. I'm 16 years old and am passionate about DXing and even more with contests. When I participated in my first contest, I thought it was really cool, and since then I haven't slowed down. When I finally participated in my first CQWW, I thought it was fantastic because of the large number of operators from all over the world, making QSOs with several new countries. I really enjoy the CQ WW, which in my opinion has been getting better every year. The CQ WW has always been good to me because I always work at least one new country! A big thank you to all the organizers for your hard work!!

73, Léo, PY2POA



Remember your first WW? This is Leo Silva, PY2POA, celebrating his initial entry as a Youth operator in the 2022 CQ WW CW contest.

databases and other methods. As a participant, you can feel good that the final results, while not perfect, are an accurate reflection of what really happened in the contest.

We continue to experience sadness in our ranks as more of ham radio's

giants leave us. You'll recall from last month, that I reported the loss of our beloved friend, Fred Laun, K3ZO. Sadly, this month, I am sharing the loss of another giant, Rod Linkous, W7OM. We'll miss both of them, but will equally cherish the memories and experi-



Keep an eye on this 12-year-old Youth operator, Ryan Morrison, E18KW. Ryan worked over 500 QSOs in the 2022 CW event with many more CQ WW contests in his future!

Hello from Ireland. I am Ryan, E18KW, and am 12 years old. I first became aware of the Morse code after visiting the Titanic Museum in Belfast, Ireland. I especially became interested in the Morse code used in the Titanic's SOS distress call. It was at that moment that I decided to learn CW and later took the required examinations, which brought me into the world of amateur radio. After passing the Morse test, I discovered that I also needed to pass a theory test to obtain a valid license. After a lot of time studying basic radio principles, I passed the theory test and received my callsign, E18KW, in August, 2020. Almost immediately, I purchased an IC-7300 and some wire and went live for the first time. My signal was not very strong, so I mainly operated on CW.

Soon after, I started listening to the contests on weekends and began operating in them. I found all of the activity and the loud signals on the bands to be really exciting. My current strategy is to mainly operate and give out as many points as possible with the big contest stations usually being able to pull me in. I love the energy on the bands during the big contests like the CQ WW CW and especially enjoy listening to the really good operators running large pileups.

When operating in the big contests I don't really have any other strategy except to operate for as much time as possible and contact anyone that can hear me. I mainly search and pounce around the bands as I don't work as many by calling CQ. At the end of the CQ WW, it's amazing to see the signals disappear and bands go quiet; it's all over until next year.

I always send in my log to the contest organizers so everyone's QSOs with me can be verified. In addition, I upload to LoTW and most of the other electronic platforms as well as sending my log into super check partial (*ed—is this how you were thinking when you were 12 years old?*).

I hope to meet you in the next contest.

73, Ryan, E18KW

CLUB SCORES

UNITED STATES

Club	# Entrants	Score
FRANKFORD RADIO CLUB.....	244	464,027,502
YANKEE CLIPPER CONTEST CLUB.....	256	413,542,478
POTOMAC VALLEY RADIO CLUB.....	233	217,062,987
SOCIETY OF MIDWEST CONTESTERS.....	163	94,265,104
NORTHERN CALIFORNIA CONTEST CLUB.....	83	74,607,532
ARIZONA OUTLAWS CONTEST CLUB.....	73	69,544,228
FLORIDA CONTEST GROUP.....	86	67,304,129
MINNESOTA WIRELESS ASSN.....	134	51,607,635
SOUTHERN CALIFORNIA CONTEST CLUB.....	71	50,919,845
NORTH COAST CONTESTERS.....	19	49,131,846
CENTRAL TEXAS DX AND CONTEST CLUB.....	32	36,197,659
SOUTH EAST CONTEST CLUB.....	48	34,500,365
TENNESSEE CONTEST GROUP.....	44	28,829,708
WILLAMETTE VALLEY DX CLUB.....	63	27,747,196
BAY AREA DXERS.....	19	25,659,489
GRAND MESA CONTESTERS OF COLORADO.....	42	25,221,760
DFW CONTEST GROUP.....	43	23,130,268
ALABAMA CONTEST GROUP.....	29	19,525,472
HUDSON VALLEY CONTESTERS AND DXERS.....	40	18,386,691
SWAMP FOX CONTEST GROUP.....	20	16,182,784
WESTERN WASHINGTON DX CLUB.....	53	15,747,727
MAD RIVER RADIO CLUB.....	25	14,725,723
NORTHEAST MARYLAND AMATEUR RADIO CONTEST SOCIETY.....	26	13,674,803
SOUTHEASTERN DX CLUB.....	4	12,628,780
KENTUCKY CONTEST GROUP.....	21	11,876,461
NIAGARA FRONTIER RADIOSPORT.....	22	9,671,262
CAROLINA DX ASSOCIATION.....	28	9,295,380
ARKANSAS DX ASSOCIATION.....	14	7,765,047
DEEP DIXIE CONTEST CLUB.....	10	7,529,705
TEXAS DX SOCIETY.....	18	6,675,695
BIG SKY CONTESTERS.....	10	6,169,400
KANSAS CITY CONTEST CLUB.....	15	4,905,728
NORTHEAST WISCONSIN DX ASSN.....	5	4,760,762
SPOKANE DX ASSOCIATION.....	22	3,936,381
THE VILLAGES AMATEUR RADIO CLUB.....	13	3,021,988
HILLTOP TRANSMITTING ASSN.....	4	2,694,568
ORDER OF BOILED OWLS OF NEW YORK.....	7	2,513,564
MISSISSIPPI VALLEY DX/CONTEST CLUB.....	7	2,273,617
CWOPS.....	4	2,021,023
MOTHER LODGE DX/CONTEST CLUB.....	15	1,893,506
CTRI CONTEST GROUP.....	7	1,878,084
SOUTH JERSEY RADIO ASSOCIATION.....	9	1,823,457
ROCHESTER (NY) DX ASSN.....	14	1,816,436
BRISTOL (TN/VA) ARC.....	12	1,680,749
DAYTON AMATEUR RADIO ASSOCIATION.....	5	1,540,543
CENTRAL VIRGINIA CONTEST CLUB.....	4	1,492,692
MERIDEN ARC.....	6	1,235,890
PORTAGE COUNTY AMATEUR RADIO SERVICE.....	9	1,012,474
NEW PROVIDENCE ARC.....	7	964,925
HEARTLAND DX ASSOCIATION.....	8	878,664
REDWOOD EMPIRE DX ASSOCIATION.....	6	865,964
FORT WAYNE RADIO CLUB.....	5	827,978
SILVER COMET AMATEUR RADIO SOCIETY.....	5	797,016
NORTHERN ARIZONA DX ASSN.....	8	763,997
NORTH FULTON AMATEUR RADIO LEAGUE.....	6	689,483
KANSAS CITY DX CLUB.....	4	574,571
SKYVIEW RADIO SOCIETY.....	5	561,891
METRO DX CLUB.....	10	420,431
ARC EMCMM SRVC.....	6	323,507
BOLINGBROOK ARS.....	4	296,712
ALEXANDRIA RADIO CLUB.....	4	289,210
HILL COUNTRY AMATEUR RADIO CLUB.....	9	271,988
HAMILTON AMATEUR RADIO CLUB.....	7	265,522
STERLING PARK AMATEUR RADIO CLUB.....	7	247,804
SIERRA NEVADA AMATEUR RADIO SOCIETY.....	4	217,824
LONG ISLAND CW CLUB.....	7	216,03
PORT LAVACA AMATEUR RADIO CLUB.....	4	137,926
OH-KY-IN ARS.....	6	132,777
PANHANDLE AMATEUR RADIO CLUB.....	4	97,780
GREAT PLACES CONTEST CLUB.....	4	92,249
YORK COUNTY AMATEUR RADIO SOCIETY.....	9	72,541
HAZEL PARK AMATEUR RADIO CLUB.....	4	70,825
PHIL-MONT MOBILE RADIO CLUB.....	5	66,034
LAKE AREA RADIO KLUB (SD).....	4	21,118
UTAH DX ASSOCIATION.....	4	15,058

DX

Club	# Entrants	Score
BAVARIAN CONTEST CLUB.....	314	347,677,055
ITALIAN CONTEST CLUB.....	272	311,152,448
EA CONTEST CLUB.....	107	224,490,956
RHEIN RUHR DX ASSOCIATION.....	149	141,531,863
CONTEST CLUB ONTARIO.....	96	122,981,453
CROATIAN CONTEST CLUB.....	46	92,565,865
ARAUCARIA DX GROUP.....	61	79,838,022
CLIPPERTON DX CLUB.....	32	68,606,304
CONTEST CLUB SERBIA.....	46	62,517,271
BALTIC CONTEST CLUB.....	20	62,150,183
RUSSIAN CONTEST CLUB.....	42	57,101,556
LU CONTEST GROUP.....	35	56,139,670
CONTEST CLUB FINLAND.....	54	51,629,274
HA-DX-CLUB.....	20	49,222,472
BELOKRANJEC CONTEST CLUB.....	14	44,304,254

Club	# Entrants	Score
UKRAINIAN CONTEST CLUB.....	98	42,733,686
VK CONTEST CLUB.....	35	37,830,327
RIO DX GROUP.....	108	32,486,997
LA CONTEST CLUB.....	12	32,054,938
SP DX CLUB.....	92	28,008,188
BELARUS CONTEST TEAM.....	15	25,031,154
CATALONIA CONTEST CLUB.....	29	21,994,874
CONTEST GROUP DU QUEBEC.....	20	21,903,821
UNCC.....	10	21,537,206
SLOVENIA CONTEST CLUB.....	42	21,527,387
WORLD WIDE YOUNG CONTESTERS.....	9	18,448,850
ORCA DX AND CONTEST CLUB.....	30	18,267,497
SIAM DX GROUP.....	22	16,948,334
THREE A'S CONTEST GROUP.....	7	16,013,476
NICOSIA CONTEST GROUP.....	4	15,530,482
DANISH DX GROUP.....	34	15,019,936
CONTEST CLUB BELGIUM.....	31	14,856,943
CZECH CONTEST CLUB.....	24	14,794,284
INTEREST GROUP RTTY *.....	12	13,257,926
LATVIAN CONTEST CLUB.....	30	13,145,478
GMDX GROUP.....	19	11,284,867
NORFOLK AMATEUR RADIO CLUB.....	9	11,007,218
CE CONTEST GROUP.....	11	10,658,758
RADIO AMATEUR ASSOCIATION OF WESTERN GREECE.....	7	10,500,508
CHILTERN DX CLUB.....	25	10,255,230
BELARUS CONTEST CLUB.....	22	9,431,125
599 CONTEST CLUB.....	20	9,407,328
JSFC.....	5	8,973,198
ARIPA DX TEAM.....	7	8,318,606
BOSNIA AND HERZEGOVINA CONTEST CLUB.....	4	8,262,098
RTTY CONTESTERS OF JAPAN.....	6	8,007,207
EUROPEAN DX CONTEST CLUB *.....	7	7,738,784
SAUDI CONTEST GROUP.....	5	7,466,336
VU CONTEST GROUP.....	21	7,399,696
URAL CONTEST GROUP.....	10	6,172,873
CS PETROLUL PLOIESTI.....	5	5,930,724
MARITIME CONTEST CLUB.....	17	5,923,421
YB-LAND DXING PASSION IS.....	227	5,911,318
SOUTHERN OSAKA CONTEST CLUB.....	11	5,557,113
WEST SERBIA CONTEST CLUB.....	13	5,374,418
GUNMA CONTEST CLUB.....	12	4,914,693
RUSSIAN CW CLUB.....	23	4,822,320
THRACIAN ROSE CLUB.....	37	4,740,586
COCKENZIE AND PORT SETON ARC.....	5	4,738,469
OKAYAMA DX CLUB.....	10	4,635,904
ASSOCIACAO DOS RADIOAMADORES DO PARANA.....	11	4,561,812
CABREUADX.....	38	4,530,882
RADIOCLUBUL RADU BRATU.....	7	4,493,338
CSTA SUCEAVA.....	4	4,382,462
TRAC.....	6	4,307,555
ORARI LOKAL BEKASI.....	4	4,171,374
MEDITERRANEAN DX CLUB.....	8	4,026,700
VRHNKA CONTESTERS.....	5	3,987,193
THAILAND DX ASSOCIATION.....	6	3,669,595
RSGB CONTEST CLUB.....	11	3,648,992
RADIOSPORT MANITOBA.....	6	3,637,996
TRAC TRABZON.....	5	3,620,425
ISRAEL AMATEUR RADIO CLUB.....	6	3,567,653
5NNDXCC.....	39	3,560,390
VERON A63 FRIESE WOUDE.....	6	3,097,348
GIRE SUN TELSIZ VE RADYO AMATORLERI DERNEGI.....	4	2,806,303
CSA STEAUA.....	4	2,716,200
GRIMSBY AMATEUR RADIO SOCIETY.....	6	2,631,855
FUCHU AMATEUR RADIO CLUB.....	9	2,525,496
PZK OT-01.....	8	2,468,434
LITHUANIAN CONTEST GROUP.....	5	2,415,390
KOREA DX GROUP.....	10	2,410,752
ESSEX CW AMATEUR RADIO CLUB.....	5	2,343,038
UA2 CONTEST CLUB.....	7	2,299,051
STOCKPORT RADIO SOCIETY.....	6	2,236,432
RADIO CLUB KVARNER RIJEKA.....	10	2,192,490
CSM CRAIOVA.....	8	2,118,646
SK6AW HISINGENS RADIOKLUBB.....	9	2,032,530
ALBERTA CLIPPERS.....	4	2,026,366
SHARKS DX TEAM.....	5	2,025,118
CSU PITESTI.....	5	1,955,144
SASKATCHEWAN CONTEST CLUB.....	9	1,912,393
S51DSW.....	6	1,889,035
UNIVERSITY OF TOKYO CONTEST CLUB.....	7	1,888,169
ADMIRA ARAD.....	7	1,850,236
IVANOVO DX CLUB.....	6	1,750,996
599 DX GROUP.....	8	1,700,679
ESPIRITO SANTO CONTEST GROUP.....	7	1,694,167
SK0QQ SODERTORNS RADIOAMATORER.....	4	1,685,739
KEYMEN'S CLUB OF JAPAN.....	30	1,674,582
NORFOLK COAST AMATEUR RADIO SOCIETY.....	4	1,534,008
SK6DG RADIOCLUB VASA.....	4	1,505,733
CDR GROUP.....	30	1,405,396
UNION FRANCAISE DES TELEGRAPHISTES.....	8	1,371,319
JAPAN LID CLUB.....	4	1,371,230
SPANDAU DXERS.....	7	1,324,906
TRUJILLO ALTO CONTEST CLUB.....	5	1,311,036
CSR BRAILA.....	9	1,296,323
SAYAN DX CLUB.....	4	1,290,593
KAUNAS UNIVERSITY OF TECHNOLOGY RADIO CLUB.....	16	1,275,562
SP-CW-C.....	8	1,273,894
LA2T TRONDHEIMSGRUPPEN AV NRRL.....	4	1,193,199
RIIHIMAINEN KOLMOSET.....	6	1,180,809

Club	# Entrants	Score
RAAC CYCLADES DX CLUB	7	1,142,451
PHILIPPINE AMATEUR RADIO LEAGUE	9	1,130,539
ZRHB	6	1,080,086
AMSTERDAM DX CLUB	4	1,045,551
YB LAND DX CLUB	22	1,020,954
GRUPO ARGENTINO DE CW	4	993,013
YO DX CLUB	12	979,749
SERRA DO LOPO DX GROUP	7	951,399
7A DX-CONTEST CLUB	14	944,834
CW QRS TELEGRAM GROUP	4	910,340
ARCK	9	890,490
RADIO CLUB VENEZOLANO CARACAS	7	868,899
KING'S LYNN AMATEUR RADIO CLUB	4	832,915
ARABIAN GULF DX GROUP	4	831,428
SHARP HAM CLUB	9	807,581
GPDY-PORTUGUESE DX GROUP	4	794,481
HOLYLAND DX GROUP	4	792,701
DX101 CONTEST CLUB	9	766,236
NEWBURY & DISTRICT ARS	4	751,680
JAPAN CONTESTER'S CLUB	5	745,582
SWINDON & DISTRICT AMATEUR RADIO CLUB	6	728,438
SK6EI SKOVDE AMATORRADIOKLUBB	6	720,189
UNIO DE RADIOAFECIONATS DEL VALLES ORIENTAL	6	715,147
YYP CLUB	5	705,952
RADIO CLUB VENEZOLANO	5	702,508
GLOUCESTER AMATEUR RADIO & ELECTRONICS SOCIETY	4	671,150
BRISTOL CONTEST GROUP	5	655,804
ARKTIKA	6	606,225
E74FRS	9	578,419
NATIONAL CHILDREN'S PALACE	8	523,619
HERMOSILLO CONTEST GROUP	6	523,386
LITTLE GUN CLUB	4	458,967
CWSP	7	453,429
FALCONS DX GROUP	16	424,849
CLUB RADIOAMATEUR VE2CWQ	5	401,265
USRA	5	397,416
LKK LVIV SHORTWAVE CLUB	5	395,810
S53EOP	4	381,667
CS SILVER FOX DEVA	6	377,887
SK5AA VASTERAS RADIOKLUBB	5	376,351
SPORT CLUB MIERCUREA-CIUC	4	367,630
HALIFAX AMATEUR RADIO CLUB	4	364,393
TALL TREES CONTEST GROUP	5	349,784
BT CW CLUB	7	329,554
VRZA VERENIGING VAN RADIO ZEND AMATEURS	4	323,979
CSU BRASOV	6	318,719
SP9PBB	13	318,274
CHILEAN PACIFIC DX GROUP	9	312,880
PETERBOROUGH AMATEUR RADIO CLUB	4	307,715
ONLINE AMATEUR RADIO COMMUNITY	6	294,463
LOMA DEL TORO DX CLUB	4	287,618
JUST FOR FUN CONTEST CLUB	6	282,921
ORARI LOKAL BOGOR	10	259,645
CSM BOTOSANI	6	238,261
CWJF GROUP	4	227,243
GERMAN DX FOUNDATION	5	222,951
LA-DX-GROUP	4	217,243
GUARA DX GROUP	12	210,665
RADIOCLUB LJUBLJANA S53AJK	5	190,804
ALRS ST PETERSBURG	5	168,964
ORARI LOKAL KEDIRI	18	168,512
RADIO CLUB DE COSTA RICA	4	164,816
BA3RA	4	160,128
BAKTRAD	4	151,394
RU-QRP CLUB	4	148,226
KOREA CONTEST CLUB	4	146,983
GRUPO DXE	5	131,495
ROYAL	5	131,054
LA4O	6	126,854
RADIOCLUBUL QSO BANAT TIMISOARA	4	126,659
HEREFORD AMATEUR RADIO SOCIETY	4	127,869
CSM TIMISOARA	4	123,505
CSA STEAUA BUCURESTI	4	119,481
CLUB DE RADIO EXPERIMENTADORES DE OCCIDENTE	6	105,312
LOMZA AND DISTRICT RADIO SOCIETY CONTEST GROUP	5	101,706
SPDXT	7	94,870
CMDXGROUP	6	93,313
RADIOFAROL DX GROUP	9	92,940
SHIJIAZHANG AMATEUR RADIO CLUB	4	83,966
YB6_DX COMMUNITY	11	80,588
JARL KYOTO CLUB	4	79,699
ORARI LOKAL BLITAR	5	68,152
THE AKITA DX ASSOCIATION	5	67,949
ECHELFORD ARS	6	62,118
EDIT14	5	58,981
TORBAY ARS	4	58,265
VLADIMIR CONTEST GROUP	4	54,229
A1CLUB	6	51,834
RADIO CLUB DE PANAMA	4	47,693
DX2EVM SCAN INTERNATIONAL	5	43,268
WEST BORNEO DX CLUB	6	37,508
CHIANGRAI DX & CONTEST GROUP	4	24,965
OLDHOUSERADIOCLUB	4	507

Club scores with **4 or more** entries.
 * This club does not meet eligibility rules.

Stories from our CQ WW Explorers

A Bahamas Adventure, by Gregg Marco, W6IZT

The availability of the Explorer category proved to be a perfect match for the goals of our C6AGU operation. The team was operating from an uninhabited island in classic DXpedition style. There was no hotel withing 100 miles of our location.

Operating via remote access from our boat, we utilized RIB (radio-in-a-box) hardware. The RIB configuration, developed by George, AA7JV, and funded by the NCDXF, was comprised of a Flex 6700 transceiver, operating with 100 watts. The antenna was an N6BT V8 vertical fed through an automatic L-network tuner mounted to the base of the antenna, placed a few feet above the high tide line. Power was supplied by a solar array and batteries. George, AA7JV, and Mike, KN4EEI, set up the station a few weeks before the contest, which remained in place and in use from our unmanned location until early January 2023.

Deployment of the station involved using a landing craft that carried two RIBs, a generator and fuel. We also transported the UHF IP-link needed to connect the RIBs to the boat. A short video on how we deployed the RIBs on the island can be found here: <<https://www.dropbox.com/s/7dqe5250hljq743/RIBlandingCraft.mp4?dl=0>>.

Remote access was accomplished using AnyDesk remote desktop software. Receive audio (with sidetone) was available using SonoBus. Our contest logging software was N1MM+, which also delivered CW keying. The internet connection utilized StarLink, much like what was accomplished in the recent Bouvet DXpedition.

Operating this station remotely during a contest was a joy, easily exceeding our expectations. The Codec in Sonobus provided outstanding audio quality. Jitter, or variations in network latency can be problematic over satellite or cellular connections. The ability to manually control buffer depth in Sonobus was key to realizing an optimal user experience.

In the end, we had a blast, and were very pleased with the results. A huge thank-you goes out to the NCDXF and George, AA7JV, for making this possible.

Exploring from ZL3!

The ZL3X (Quake Contesters) team proudly entered the Explorer category in the 2022 CQ WW CW Contest. Normally we would have been operating as a Multi-2 from my QTH (ZL3PAH), but this year one of our ops, Geoff, ZL3GA, had COVID in their household. Given my daughter was getting married shortly afterwards, we did not feel comfortable hosting our usual operating team together in one shack. The Explorer category was the perfect solution! Mark, ZL3AB, and I operated from my Motueka, Tasman shack while Geoff, ZL3GA, operated from his home QTH in Christchurch.

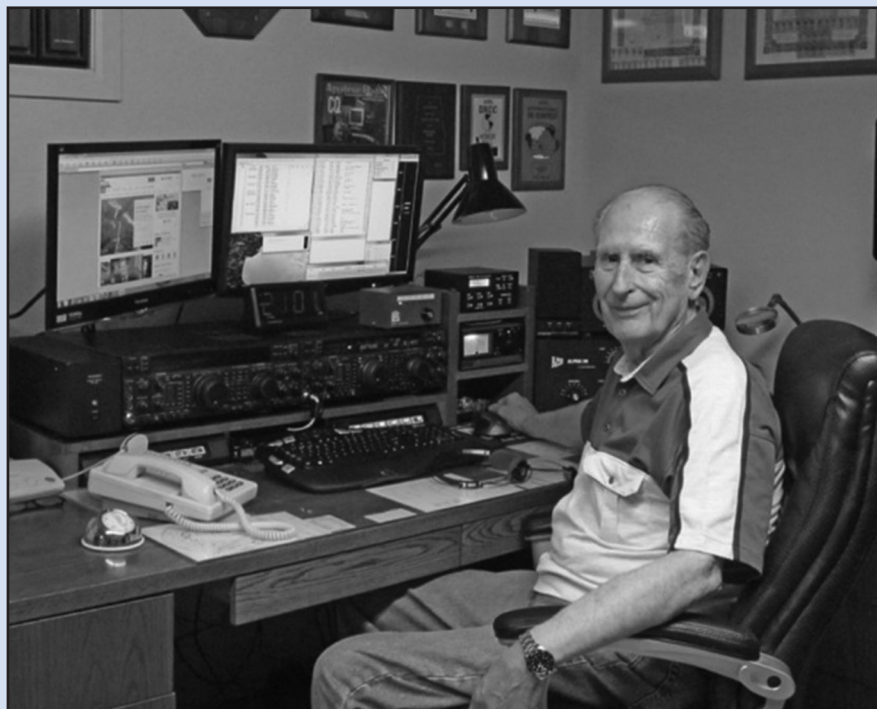
We used a K3 & K3S alongside SPE-1K and SPE-1K5 amplifiers. Our antennas were a 40-10m 2/3-EI Ultrabeam at 18 meters, plus a 5-element 15-meter beam, 15 meters in the sky. We also used home-built band pass filters between transceivers and linears to allow multiband operation with very little interference on each band. Utilizing N1MM+ connected over the Internet, we could easily view how each station was doing and make strategic operating decisions on the fly.

Exploring may not be for everyone, but it sure worked for us!

73, Phil, ZL3PAH/ZL3P

A Tribute to Rod Linkous, W7OM

BY TOM OWENS, K7RI



Rod Linkous, W7OM, at home in one of his favorite places; the ham radio shack!

November 30, 2022. Indeed, Rod's passing shortly after his 88th birthday was a very sad day. A hearty amen to all the nice things that have been said about Rod and his accomplishments in ham radio.

Rod was real gentleman. In all my years of knowing Rod, I never heard him say a disparaging word about anyone. Rod received his first license in 1949 when he was 15 years old – W7KIM – the beginning of a passion for ham radio that he enjoyed for the rest of his life. Rod's first station was a set of ARC-5 aircraft radios and simple wires in trees. Years later, he became W7YBX and finally, W7OM, in 1977.

Rod entered the US Air Force aviation cadet program after high school, having already received his pilot's license. He opted to attend airborne radio/radar school with his first assignment being an airborne operator at an airbase in Japan. Many years later, in 1979, an Air Force posting took him to his first stop at the Pentagon. In 1961 he was also hired by Boeing on their aerospace program, which required a lot of traveling in the mid-1970s and beyond – both nationally and internationally. Many trips to the Washington, DC area ensured where, in his spare

time, he made lifelong amateur radio friends. Rod retired from Boeing in 1993. In addition, after a distinguished 41-year career, Rod retired from the Air Force in late 1994, having attained the rank of Major General.

During his first week at the University of Washington in 1958 Rod met Donna, his Scottish lass, who survives him. They were married in 1960 and in 1963 bought their home in West Seattle. A year later there was a 60-foot tower and a tri-bander in the backyard. Over the years the antenna farm varied and grew to its present state: three slopers on 80- and 160-meters and a SteppIRDB-18E at 60 feet. All in all, he enjoyed good coverage for 40 through 6 meters – neatly snuggled on a 50x128-foot city lot. Oh, did I forget? Rod received an Electrical Engineering degree from the UW in 1961. Most of his contesting and DX chasing from the West Seattle QTH was low power out of respect for his neighbors.

For around five years, during the 1970s, Rod was an Assistant DX Editor for *CQ* magazine. And, over the years he authored several articles that were available in various amateur radio publications on topics that were of interest to fellow amateurs around the world.

Rod's operating numbers are right at the top of the standings in all categories, including DXCC totals of 373/Mixed, 370/Phone and 350/CW as well as CQ's elusive 5BWAZ achievement. The shack is adorned with several plaques for first-place, low power entries in QSO parties and other operating events. In addition, several Air Force plaques and awards which commemorate his service to our country.

In summary, Rod was a quiet, unassuming but excellent enabler. His drive and enthusiasm were responsible for many positive results. In addition to being an effective mentor and willingness to share his wisdom and time with others, Rod was the dynamic force that made many things successful. Mentioning two will have to suffice:

- **The Western Washington DX Club (WWDXC) – the early years**

In the early 1950s Rod became the Club President and served in that role for many terms. Under his guidance, membership grew from 31 members to several hundred. Three major factors facilitated the growth: (1) a chain of buffet restaurants with free meeting rooms; (2) dinner meetings raffles, which financed the club for many years without the need for dues; and (3) excellent programs on topics of interest at each meeting, which was a magnet for attendance. Interest in DX and contesting thrived, and the club became known worldwide for its *Totem Tabloid* publication, *The Washington Totem Award* (still sought after by amateurs worldwide all these years), and the club's excellent contest.

- **Monthly Lunch Meetings**

With the demise of many buffet restaurants, it became significantly more difficult to find cost-effective venues that could accommodate 100+ people for dinner meetings. Membership fell considerably, as has dinner meeting attendance. Accordingly, Rod was instrumental in establishing monthly lunch meetings which continue to this day, providing a needed boost to the club.

Thank you, Rod. There is no doubt that you will be greatly missed by all who knew you in the hobby and outside of radio as well. You were one of a kind!



What a fantastic set-up at the Multi-2 2022 CQ WW CW operation of VA2UR, manned by station owner, Guy Lemieux, VE2BWL, and Don Girard, VE2IR!

ences of getting to know these outstanding contributors to our hobby and the world at large.

One final note of encouragement. As sophisticated as our stations are becoming, nothing beats what you can process between your two ears. We see many logs containing calls based on what the spotting computers are reporting as opposed to the actual stations being worked. Embracing the long-standing strategy of “trust but verify” what you see on the screen as an assisted operator will always result in a higher final score.

Without Further Ado...

This is my second and final opportunity this year to recognize the individuals who do the real work behind the scenes for the CQ WW contest. Without these dedicated volunteers, we would have no contest. It’s my honor to acknowledge the following members who made it happen this time around: Bud Trench, AA3B; CT1BOH, José Nunes; EA4KD, Pedro Vellido; ES5TV, Tonno Vahk; F6BEE, Jacques Saget; G0MTN, Lee Volante; IK2QEI, Stefano Brioschi; JH5GHM, Katsuhiko (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; OH6LI, Jukka Klemola; PA3AAV, Gert Meinen; RA3AUU, Igor (Harry) Booklan; S50A, Tine Brajnik; S50XX, Kristjan Kodermac; UA9CDC, Igor Sokolov; VE3EJ, John Sluymmer; VK2IA, Bernd Laenger; YO3JR, Andrei (Andy) Ruse.

And finally, if current band conditions are any indicator, this fall contest season bodes for an amazing set of CQ WW contests. Amazingly, it’s only five months away. See you in October and November 2023!

73, John, K1AR

(Scores on page)