

Results of the 2022 CQWW DX SSB Contest

“Amazing conditions this weekend ... I wish every contest was like this. –VE2HEW”

BY JOHN DORR*, K1AR

For nearly a three-quarters of a century at the end of every October (and November) the world’s largest operating event takes place – the CQ WW DX Contest. Celebrating its 74th running, this year’s event was nothing short of spectacular as our favorite solar object supported incredible conditions on all bands, 160-10 meters!

Although down about 10% from last year’s total, we still received an impressive 9004 logs in the 2022 WW edition as over 1000 entries poured into our “in-box” in the first 60 minutes after the contest ended! When compiling the data, I’m happy to report that your activity reflected 4,111,409 QSOs made during the contest, an average of 85,654 contacts per hour or perhaps more amazingly, 24 QSOs in every second of the contest. I’ve claimed this before, but after 74 years of beta testing, I’m now convinced this WW thing is starting to gain some traction!

I’m also pleased to note that the full impact of COVID appears to be in the rear-view mirror as proven by the number of 2022 WW contest DXpeditions and other rare activa-

tions that were worked in such cool places as SU, 5R8, 7Q7, ZD7, ST, YI, JD1, 9N, FW and others. Of course, who can ignore the spectacular growth in activity from Indonesia and China, with 416 and 197 received logs, respectively? Watch out Japan – your days of dominating the Asian operating scene are being seriously challenged as 571 entries arrived from JA.

Finally, while space does not provide me with the luxury of including all of your soapbox comments (*you can read them all on cqww.com—ed.*), here are a few representative samples that reflect your comments and excitement from the WW weekend:

The CQ WW was a great experience! It was my first contest since getting my new ham radio license! – VU3IZV

10 meters was hot! So cool to hear a dad helping their kid work the contest (DN4AN). CQWW is the best! – N8VW.

My first CQ WW was in 1949. I haven’t missed one since then! – DL3AO.

So, with the return of good conditions this year, we have a lot to report. Onward to the results!

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Here’s where youth operator Yoshi, KH0UA, was sitting if you were lucky enough to work him in the 2022 CQ WW SSB contest.



Another youth operator, Nick, KD9V, trying out his new 40-meter inverted-V in the 2022 CQ WW SSB contest.



Here is the hard-working multi-op crew at LX8M, who set-up their station from scratch just for the CQ WW contest!

prepared for amazing conditions and unprecedented scores. It's incredible to think that 50 years ago, the world high CQ WW single-operator score by 4M4UA (op. W6BHY) was only 5.4M, which would barely make today's leader box. That's in sharp contrast to this year's winner, PJ4K (op. – N6KT). Rich posted a 16.2M effort, besting the impressive 13.3M effort by Randy, K5ZD, from V47T, although it should be noted that each score had over 9K QSOs and similar multiplier counts as the 3-point advantage struck again! In the low-power class, Alfredo, WP3C, rang in with a 4.5M world-high result – no small achievement with only 100 watts.

2022 CQWW DX SSB PLAQUE WINNERS AND DONORS

SINGLE OPERATOR, ALL BANDS

World
PJ4K (Opr.: Rich Smith, N6KT)
 Donor: Southern California DX Club

World – Low Power
Alfredo Velez, WP3C
 Donor: Slovenian Contest Club

World – QRP
Anthony Luscre, K8ZT
 Donor: Jeff Steinman, N5TJ

World – Assisted High Power
PT5J (Opr.: Sergio Almeida PPSJR)
 Donor: Chick Allen, NW3Y

World – Assisted Low Power
TM3Z (Opr.: Dimitri Cosson, F4DSK)
 Donor: Gail Sheehan, K2RED

U.S.A. – High Power
Ken Claerbout, K4ZW
 Donor: Potomac Valley Radio Club – KC8C Memorial

U.S.A. – Low Power
Ed Sawyer, N1UR
 Donor: North Coast Contesters

U.S.A. – QRP
Bill Parker, W6QU*
 Donor: Pat Collins, N8VV

U.S.A. – Assisted High Power
Charles Fulp, Jr., K3WW
 Donor: John Rodgers, WE3C

U.S.A. – Assisted Low Power
Lyle K. Ten Pas, WE9R
 Donor: LA8W/LN8W & LA Contest Club

U.S.A. – Zone 3
ND7K (Opr.: John Colyard, W4IX)
 Donor: Northern California Contest Club

U.S.A. – Zone 4
George Fremin, III, K5TR
 Donor: Kansas City DX Club

Europe
DM6V (Opr.: Felix Kuntzsch, DL7FER)
 Donor: Potomac Valley Radio Club – W4BVV Memorial

Europe – Low Power
CR2B (Opr.: Miguel Angel Devora Jimenez, EA1BP)
 Donor: Tim Duffy, K3LR

Europe – QRP
HG6C (Opr.: Gulyas Imre, HA6IAM)
 Donor: Steve "Sid" Caesar, NH7C

Europe – Assisted
OM2R (Opr.: Jozef Land, OM3GI)
 Donor: Martin Huml, OL5Y

Africa
Ricardo Martins, CT3KN
 Donor: Southborough Rod & Gun ARC – N1XS Memorial

Asia
UP0L (Opr.: Vladimir Vinichenko, UN9LW)
 Donor: Nodir Tursun-Zade, EY8MM

Caribbean/Central America
V47T (Opr.: Randy Thompson, K5ZD)
 Donor: John Rodgers, WE3C

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

Oceania
KH7M (Opr.: Dick Norton, N6AA)
 Donor: Barbara Yasson, AC7UH

South America
John Bartlett, HK3C*
 Donor: Yankee Clipper Contest Club

Canada
XL3T (Opr.: Ron Vander Kraats, VE3AT)
 Donor: Contest Club Ontario – VE3WT Memorial

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

ASEAN (XZ, HS, XW, XU, 3W, 9M, 9V, V85, YB, DU) – Assisted
Ron Schiltmans, DU3T
 Donor: Champ C. Muangamphun, E21E1C – Siam DX Group

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

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

U.S.A. – 14 MHz
Dan Handa, W7WA
 Donor: Yankee Clipper Contest Club – KC1F Memorial

U.S.A. – 7 MHz
Julius Gostel, Jr., K4SXT
 Donor: Chuck Dietz, W5PR

U.S.A. – 3.7 MHz
Steven Sussman, W3BGN
 Donor: John Rodgers, WE3C

U.S.A. – 1.8 MHz
Drew Vonada-Smith, K3PA
 Donor: South Texas DX & Contest Club

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

Europe – 21 MHz
IY3A (Opr.: Matteo Marzilli, IZ3EYZ)
 Donor: OH-DX-Ring, OH2AM – OH2SB Memorial

Europe – 14 MHz
OH8X (Opr.: Pasi Luoma-aho, OH6UM)
 Donor: Charles Wooten, NF4A

Europe – 7 MHz
CR6T (Opr.: Antonio Rui De Sousa Santos, CT1ESV)*
 Donor: Central Texas DX and Contest Club – NT5C Memorial

SINGLE OPERATOR, SINGLE BAND

World – 28 MHz
CR3Y (Opr.: Branislav Panak, OM2KW)
 Donor: Joel Chalmers, KG6DX

World – 21 MHz
CR3DX (Opr.: Tibor Ferenc, OM3RM)
 Donor: John Rodgers, WE3C

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

World – 7 MHz
ED5R (Opr.: Angel Turpin Guillamon, EA5Z)
 Donor: Fred Laun, K3ZO – K7ZZ Memorial

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

World – 1.8 MHz
Ljubo Pintar, S53O
 Donor: OL7M Contest Group, QRO.cz, RemoteQTH.com

Europe – 3.7 MHz
Carlos Aragon, EE7L*
 Donor: Friend of Klaus - DJ4PT Memorial

Europe – 1.8 MHz
Juris Sellis, YL3FT*
 Donor: Robert Kasca, S53R

Caribbean/Central America (28 MHz)
KP2B (Opr.: David Llanez Fernandez, EB7DX)
 Donor: Nate Moreschi, N4YDU

Oceania (28 MHz)
VK1A (Opr.: Bernd Laenger, VK11A)
 Donor: Bruce D. Lee, KD6WW

Asia (28 MHz)
Alberto Annesi, VR2XAN
 Donor: DFW Contest Group – W5PG Memorial

OVERLAY CATEGORIES

World – Classic
P40T (Opr.: Yuri Onipko, VE3DZ)
 Donor: John Rodgers, WE3C

Well-known contester Roli, LY4A, sitting in front of his Lithuanian super-station.

Two fine Single-Op, All-Band USA entries made the top-10 world listings this year as Ken, K4ZW came out on top with a 6M point effort, beating out George, K5TR who achieved an impressive #10 world-high score of 5M from Texas.

While QRP operating may be a little less frustrating at solar peaks, QRP is still QRP! The world high score this time around goes to Anthony, K8ZT, who achieved a fantastic score of 349K, including 92 and 90 countries on 15 and 10 meters, respectively.

One of the CQ WW's accuracy champions, Yuri, VE3DZ, demonstrated what's possible in the Classic overlay by posting a world-high 5.3M point entry



U.S.A. – Classic
Robert Shohet, KQ2M
Donor: BeLoud.US

Europe – Classic
Yuri Sakalouski, EB5A
Donor: Steve Cole, GW4BLE Memorial

Japan – Classic
Tutomu Kubota, JK1OLT
Donor: Hajime Kato, JO1RUR

World – Rookie
Roberto Ursino, IU2OVV
Donor: Tim Duffy, K3LR – N8SM Memorial

U.S.A. – Rookie
Dennis Tune, W9DCT
Donor: Tim Duffy, K3LR – K3TUP Memorial

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

World – Youth
Andreas Tsiakouris, 5B4AQT
Donor: YOTA Camp

North America – Youth
Dawson Morton, KE8HBV
Donor: Neil Rapp, WB9PVG

Europe – Youth
Philipp Springer, DK6SP
Donor: IARU Region I Youth Working Group

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

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

Asia – Youth
Jianang Zhu, BD4VGZ*
Donor: YOTA Japan

Oceania – Youth
Yoshiaki Nakada, KH0UA
Donor: IARU Region 3

World Single-Operator – Explorer
Simon Sintic, S53K
Donor: World Wide Radio Operators Foundation

World Multi-Operator – Explorer
OT7T (Oprs.: ON4DS, OP4K, ON7TK, ON4AMX, ON5OO, ON7EQ, ON5RA, ON7MV, ON4ANN, ON5GM, ON4CHT, ON4CAU, ON4EC, ON4CJK, OR1X, ON9TT)
Donor: World Wide Radio Operators Foundation

MULTI-OPERATOR, SINGLE TRANSMITTER

World
P33W (Oprs.: RA3AUU, RW4WR, R3DCX, UA4FER, LZ2HM, R4FO, RK4FD, 5B4AIF, RA3CO)
Donor: Southern California DX Club – W6AM Memorial

World – Low Power
FY5KE (Oprs.: FY5FY, F1HAR, F4CWN, F5HRY, F5UII, F6FYY)
Donor: Tennessee Contest Group

U.S.A.
K9RS (Oprs.: K9RS, N3DXX, N8NA)
Donor: Carolina DX Assoc. – Ted Goldthorpe, W4VHF and Ken Boyd, K4DXA Memorial

U.S.A. – Low Power
WW4LL (Oprs.: WW4LL, K9MU, K1ZZI, NN9DD, AA4CF, K4NV, N2WF, UR5WA, US5WE)
Donor: KZ5DX – DX HOGS

Africa
FR4KR (Oprs.: FR8TZ, FR8UA, FR4QT)
Donor: WRTC 2022

Asia
TC3X (Oprs.: TA3NE, TA7N, TA5FA, TA4RC, TA3ST, TA3CY, TB3DMY*)
Donor: John Rodgers, WE3C

Europe
E7DX (Oprs.: 9A1TT, 9A2ZI, DJ2MX, DJ4MX, E70R, E70T, E74A, E74AW, E76C, E77C, E77DX, E77EA, F5SNJ, S55OO)
Donor: Gail Sheehan, K2RED

Europe – Low Power
ED7O (Oprs.: EA7EU, EA7JXZ, EA7W, EC5AN, EA5O)
Donor: EA Contest Club

Oceania
AH2R (Oprs.: NH2C WI3O KH2JU)
Donor: Junichi Tanaka, JH4RHF

South America
PJ4G (Oprs.: K1QX, K2NG, PJ4DX, PJ4KY, PJ4NX, W1MD)
Donor: Victor Burns, K16IM – The Cuba Libra Contest Club

Caribbean/Central America
KP4AA (Oprs.: KP4AA, N0HJZ)
Donor: Bob Raymond, WA1Z

Japan
JA7ZFN (Oprs.: JA7ACM, JA7NLW, JG7PSJ, JH7XMO, JI7GBI, JP7DKQ)
Donor: Arizona Outlaws Contest Club

ASEAN (XZ, HS, XW, XU, 3W, 9M, 9V, V8, YB, DU)
7D1C (Oprs.: YB0AF, YB0IBM, YB1EME, YB1FAV, YB1IUQ, YB1NWP, YC1CLE, YC1COZ, YC1DSV, YC1GHZ, YD1CGW, YD1FBF, YD1JOH, YD1KDA, YD1PBJ, YG1BKU)
Donor: Bruce Frahm, K0BJ

MULTI-OPERATOR, TWO TRANSMITTER

World
EA8RM (Oprs.: EA2W, EA5KA, EA7X, EA8KR, EA8RM, EB7A, EC2DX, EC7WR)
Donor: Array Solutions

U.S.A.
W3LPL (Oprs.: W3LPL, W3IDT, K3MM, N3QE, K3RA, W3UR, WR3Z, K4D4, N4QQ)
Donor: Kimo Chun, KH7U & Mike Gibson, KH6ND - Dan Robbins, KL7Y Memorial

Europe
CR6K (Oprs.: CT1CJU, CT1HXB, CT1ILT, CT2HUU, CT2IMG, CT7AGE, CT7ANO, F4AJS, F4EGZ)
Donor: D4C Monteverde Contest Team – IR4X Monte Capra Contest Team – I4EAT Memorial

South America
P40L (Oprs.: W6LD, W2GD, K3CT, NY3B)
Donor: South East Contest Club

Japan
JA7YRR (Oprs.: JA0RYN, JA7FDY, JA7MSQ, JA7WSC, JH7BVH, JH7VHZ, JR7BPM, JR7LVA, JE7KCI)
Donor: Yokohama DX Club

ASEAN (XZ, HS, XW, XU, 3W, 9M, 9V, V8, YB, DU)
E2A (Oprs.: DL3DX, E20NKB, E21EIC, E25KAE, E29TGW, HS3PIK, HS4RAY, K0BJ, LA7JO, N5ZO, SP3LPG, VE3LA)
Donor: Champ C. Muangamphun, E21EIC – Siam DX Group

MULTI-OPERATOR, MULTI-TRANSMITTER

World
D4Z (Oprs.: IK2NCJ, G4CLA, GD4XUM, G4BZY, M5RIC, IZ4DPV, SQ9D, HB9CAT, N0VD, EA8FF)
Donor: Dave Leeson, W6NL & Barb Leeson, K6BL

U.S.A.
K3LR (Oprs.: N2NC, N5UM, K3LR, W2RQ, K3LA, N2NT, K1AR, N3SD, K3UA, K1DG, N3GJ, N3RA, DL1QQ, WM2H)
Donor: Jim Lawson, W2PV Memorial

Europe
M6T (Oprs.: G2NF, G4MJS, M0MDR, M0SDV, G4KNO, G0PZA, G4PIQ, G4PVM, G0WCW, G4BUO, G4AFF, M0TBS, G4TSH, G0VJG, G0AEV, M0HKB, G0EGW)
Donor: SRAL (The Finnish Amateur Radio League) – OH5NQ Memorial

CONTEST EXPEDITIONS
World – Single Operator
V85RH (Opr.: Hajime Kato, JO1RUR)
Donor: National Capitol DX Association - W2GHK Memorial

World Multi-Op
P29RO (Oprs.: DG2RON, DJ9KH, DL4SVA, DL6KAC, DL7VEE)
Donor: Gail Sheehan, K2RED

*Awarded to second place finisher

an incredible 38.7M score. Perhaps the most amazing result of the entire contest, however, goes to the D4Z multi-multi team, who achieved an incredible 50M point score and over 19,000 QSOs! And that included an unexpected one-hour off-time due to a station problem. Imagine the reaction of the CN3A team, who scored 47.4M but came in second. Hats off to both groups for a job well done.

Before moving on, we need to acknowledge our Rookie and Youth entries. Between the two overlay groups, we received 470 logs this year. The CQ WW is indeed attracting newer operators, which bodes well for the contest's future! Roberto, IU0OV, led the Rookies with a fine score of 1.5M. There is some good contest mentoring going on in Italy. And, the Youth contingent was won by Andreas, 5B4AQT, with a

MULTI-OP TWO-TRANSMITTER

EA8RM	38,749,256
P4OL	24,628,032
ZF1A	24,295,992
CR6K	19,736,855
E17M	18,787,860
PX2A	17,619,751
W3LPL	16,260,048
ES9UKR	16,250,324
9A1P	15,959,447
ED1R	15,804,510

MULTI-OP MULTI-TRANSMITTER

D4Z	50,007,304
CN3A	47,413,520
PJ2T	34,239,262
K3LR	25,835,784
M6T	21,693,672
K11LZ	21,461,871
V26B	20,092,748
LZ9W	19,672,752
YTSA	19,599,723
DF0HQ	17,362,332

EXPLORER SINGLE-OP

S53K	479,765
9A1DR	87,516
SQ5EXM	16,380
W2MRD	11,304
PY2YAS	7,168

EXPLORER MULTI-OP

OT7T	9,900,208
IOQA	4,328,676
EA4URE	3,519,552
9H6A	3,297,650
EE7K	1,961,756
IB2C	652,320
9M8J	231,504
EA6URL	138,533

ROOKIE HIGH POWER

IU0OV	1,514,955
W9DCT	1,093,680
9A5RTW	1,079,910
LX1LC	686,154
K3AK	613,410
IU1NKS	546,720
W3FR	544,600
VE3GJP	423,522
DD5VL	360,570
F4JJS	247,342

ROOKIE LOW POWER

EA4HKF	687,635
AE0DX	550,525
EA5JEG	413,699
VA3OKG	331,420
SP9PD	320,565
DL9DX	313,635
TK4TH	308,847
SN3J (SP3DAT)	295,875
IU4NGP	284,130
WP4TZ	266,178

CLASSIC HIGH POWER

P4OT (VE3DZ)	5,338,158
CT3KN	4,838,712
KP2M (KT3Y)	4,586,904
KQ2M	4,467,840
WH7T (WH7W)	4,440,352
EB5A	4,027,944
ED8M (EA8DI)	3,979,508
ZF2AA (VE9AA)	3,170,244
DL2CC	2,677,106
K0EJ	2,636,412

CLASSIC LOW POWER

K1BX	1,593,606
IH9/IK5AEQ	1,558,025
FG5GP	1,336,504
WW4XX (LZ4AX)	1,303,932

KH6CJJ	1,060,811
OL5Y	927,639
CO8NMN	793,026
PZ2YT	725,000
Y07SR	619,440
WA3LXD	524,210

YOUTH HIGH POWER

5B4AQT	1,152,580
DK6SP	1,085,640
E70AW	943,236
KH0UA	922,209
LX71 (F4HWS)	757,520
KE8HBV	540,792
DK5AV	386,884
OE8DDX	291,555
F4IDC	249,240
DC2CL	216,800

YOUTH LOW POWER

9A3GVJ	594,392
BD4VGG	256,795
SP3GTP	180,632
LY5AX	167,014
DL2ALY	161,200
HA1BB	157,740
NR1K	144,504
KE8RJU	142,064
VE3GKT	131,338
VE3OMV	76,428

UNITED STATES SINGLE OPERATOR HIGH POWER All Band

K4ZW	6,017,235
K5TR	5,005,155
W9RE	4,980,048
KQ2M	4,467,840
K3ZO	4,289,844
NR3X (N4YDU)	4,127,820
ND7K (@N6WIN)	3,007,544
N2QV	2,785,321
K0EJ	2,636,412
K7RL	2,337,120

28 MHz

N4OX	695,360
K2XA	599,666
K4WJ	520,277
N1PGA	467,200
W5PR	375,804
K0PJ	322,010
K1RM	235,524
W4DD	208,080
KW9A	173,476
WE6EZ	138,132

21 MHz

KU2M	903,650
N1LN	400,650
WC6H (NU6S)	328,679
N7RQ	269,001
NE8P	233,112
N5CR	171,384
W9LY	114,400
K0BBB	106,743
K15QKL	95,964
WD6DBM	90,948

14 MHz

W7WA	667,800
KE8FT	64,480
NT7U	59,940
KA3LKM	51,260
WB8OC	19,832
KC3RRF	18,288
W2IKN	5,586
K1ALA	1,342
K15ODW	384
KB9ORA	216

7 MHz

K9CJ	7,436
AA8BV	5,390
KK7DP	3,774
W8SJS	272
W6IA	144

3.7 MHz

W3BGN	59,013
W1FQ	21,229
PZ2YT	19,093
K2PM	9,555
W6RKC	2,001
K5IB	36

1.8 MHz

K3PA	70
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LOW POWER All Band

N1UR	4,035,766
K1BX	1,593,606
WW4XX (LZ4AX)	1,303,932
W6DVS	791,336
W6DVS	791,336
K8ZM	740,124
N1NQD	725,637
K3SWZ	682,348
K5FUV	676,620
AC0W	559,721
WA3LXD	524,210

28 MHz

N8II	326,960
K5OF	254,562
N1WRK	141,022
N3GB	119,704
K4TMC	114,814
WK2G	110,016
W4RYW	91,350
N8VW	90,780
W8JGU	76,845
WB0LQC	70,196

21 MHz

WA7BNM	92,432
W9QL	64,155
W5CUB	50,140
KC8ZMN	32,452
N6RM	26,044
W0JIM	13,560
KF5RLL	11,913
N9HDE	8,816
WB8SAG	4,914
K15IQE	4,680

14 MHz

KB8VND	27,335
KB0KFK	5,412
K4QR	5,085
KV4AC	4,386
AA1F	3,420
W3EH	2,790
KE3O	2,528
KG5TKF	2,016
KG5ZJN	1,150
AB1J	666

7 MHz

K4SXT	19,440
K7BWC	3,100
N1UMJ	1,472
KM1NDY	1,071
W8WJC	903
N5ONS	684
N5MKY	391
KD5CMW	360
N8TCP	228
K6WBY	187

1.8 MHz

W1HIS	18
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QRP All Band

K8ZT	349,160
W6QU (W8QZA)	131,130
W3EK	77,355
KA8SMA	72,695
N7JJ	35,805
NF2L	22,892
N3CI	19,926
KB4FUW	11,826
WC7S	10,296
K7FR	9,316

28 MHz

K1WHS	51,624
KE0WPA	35,646

WB3GBL	6,624
W8IQ	4,590
K0VK	1,848
W4RLS	1,035
K2PM	722,990
KA7T	704

21 MHz

ND0C	47,229
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14 MHz

W2VRK	12,393
K4CUZ	230
K1NLL	80

7 MHz

WU2M	1,333
WA2NYY	60

SINGLE OPERATOR ASSISTED HIGH POWER All Band

K3WW	6,141,828
WB9Z	5,813,697
AA3B	5,674,212
N2IC	5,410,368
N3RS	5,085,948
K4AB	5,004,090
N2SR	4,869,000
AB3CX	4,444,160
NI1SS	4,209,824
AA1ON	4,182,408

28 MHz

N4EEB	618,852
AA9A	441,450
NJ0F	344,800
WJ2D	284,592
W1UE	262,780
N6SS	248,381
N1MM	223,524
W8CZN	170,240
W7RN (K5RC)	169,500
W1AJT	161,379

21 MHz

WA2OAX	483,653
W6AFA	370,668
N7DD	328,614
W9PA	280,716
KM4HI	203,060
W7IL	183,084
N0RN	141,055
WT2J	131,692
N9TCA	17,301
K17N	1,260

14 MHz

KV0Q	313,058
WA4JUK	114,829
WM1G	108,000
WF7T	96,247
N10K	49,294
W7ZR	10,030
W7CO	2,295
N5KAE	1,170
AD7LJ	1,134

7 MHz

W6KW	65,508
W4PG	31,995
N9LR	31,125
KG1E	18,291
N7RK	15,561
KD4RH	5,700
KB7QFE	77

3.7 MHz

W3NO	59,580
K3MM	22,400
KM2G	16,897
W4TTY	4,998
N2KA	1,976

1.8 MHz

K5UR	4,510
K2KW	77

LOW POWER All Band

WE9R	1,740,975
N2YO	1,539,699

KS1J	1,486,660
N3AAA	1,317,580
W3KB	1,306,216
N4XL	1,013,520
NS3T	722,990
KA2KON	695,980
K8LY	670,542
NC1A	651,130

28 MHz

N1DG	516,502
W4RN	304,428
N3UA	224,000
W9XT	163,280
W6ZL	67,080
WA2LMC	45,630
KB3NJB	42,930
K2ZR	37,696
K2IW	37,146
K4JPD	35,178

21 MHz

N4IJ	151,230
N9TGR	146,727
WA1FCN	130,438
WA5WFE	77,998
WB9HFK	40,940
W8TJM	11,800
KE0JTC	10,738
WV7S	940

14 MHz

KO4WPO	5,891
N1KJS	4,700
WA8ZNC	3,312
K4WWP	3,016
AK2U	2,244
W9QEE	532
K1NDU	440
W0SAB	6

7 MHz

K1IM	18,292
KA9A	3,570
AA4NP	2,430

3.7 MHz

W1DYJ	3,848
WZ6ZZ	960

QRP All Band

K2PI	19,448
NO5V	8,576

28 MHz

AC5O	85,902
KO1H	21,294
N6MZ	13,456

MULTI-OP SINGLE-TRANSMITTER HIGH POWER

K9RS	7,117,835
K8AZ	4,458,135
W7RM	3,960,408
K4RM	3,704,810
NA2U	3,257,604
N4UU	3,093,960
NJ4P	2,591,512
N4SS	2,565,640
K3AJ	2,409,097
W1TJL	2,221,032

LOW POWER

WW4LL	3,342,634
W1QK	1,168,790
WA1F	1,020,992
W3ZGD	958,500
KT4XA	455,975
W1OP	283,884
AA2MF	281,162
KA8YNW	166,192
W1JSR	160,590
AD4XT	114,264

MULTI-OP TWO-TRANSMITTER

W3LPL	16,260,048
K1CC	10,751,922
K9CT	8,219,670
K2AX	6,387,920

W2MKM	6,047,919
KM8Q	4,197,402
AA4VT	3,844,200
WANF	3,150,264
K8LX	2,220,568
W2EN	1,980,090

MULTI-OP MULTI-TRANSMITTER

K3LR	25,835,784
K1LZ	21,461,871
W3XB	11,870,899
K1TTT	11,127,144
W3PP	6,004,999
K1KI	5,509,664
K3EST	5,432,178
W2A	3,848,526
K1KP	3,700,234
NE3F	2,836,592

EXPLORER SINGLE-OP

W2MRD	11,304
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ROOKIE HIGH POWER

W9DCT	1,093,680
K3AK	613,410
W3FR	544,600
KO4VVB	177,310
K7WXB	141,966
KD2UBH	135,04

1.1M point result. What's more amazing about Andreas is that the 2022 CQ WW was his first contest, including his first amateur radio QSO. How's that for getting off to a good start?

What's Your Favorite Category?

When reviewing this data from the 2022 contest (see *Table 1*), I had to do a double-take as it looked almost identical to last year's numbers. We certainly are set in our ways from

an operating point-of-view. Keeping in mind that this is solely all band data, the split between assisted and unassisted entries remains the most informative; the unassisted single operator entries far exceeded their assisted counterparts by 3277 to 2344. Interestingly, the unassisted low power group, in particular, led by over 2:1. It's clear, at least for the CQ WW, that the assisted and unassisted entry classes will be here to stay for some time to come.

Table 1

Category	AF	AS	EU	NA	OC	SA	ALL	% of total
SOAB High/Assisted	2	76	462	658	30	38	1266	20.7%
SOAB High/Unassisted	11	136	276	357	59	28	867	14.2%
SOAB Low/Assisted	3	76	537	343	40	46	1045	17.1%
SOAB Low/Unassisted	16	270	1047	733	153	72	2291	37.5%
SOAB QRP/Assisted		3	14	2	3	1	23	0.4%
SOAB QRP/Unassisted		14	66	23	8	8	119	1.9%
Multi-2	2	13	44	27	8	5	99	1.6%
Multi-Multi	2	6	21	18	5	4	56	0.9%
Multi-Single/High	1	16	114	42	9	18	200	3.3%
Multi-Single/Low		23	65	25	12	6	131	2.1%
Explorer/Multi		1	7		1		9	0.1%
Explorer/Single-Op			3	1	1		5	0.1%
ALL	37	634	2656	2229	328	227	6111	100.0%
% by Continent	0.6%	10.4%	43.5%	36.5%	5.4%	3.7%	100.0%	

*Single band entries not included in analysis.

Table 1. 2022 CQ WW SSB Logs by Entry Class

2022 CQWW DX SSB BAND-BY-BAND BREAKDOWN — TOP ALL BAND SCORES

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

WORLD SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
PJ4K	130/10/17	524/22/64	1126/26/82	2226/33/84	2361/35/97	3019/27/100
V47T	41/6/14	613/17/71	1367/26/89	1992/34/98	2319/29/93	3071/25/97
P4OT	11/5/10	399/15/59	568/23/63	1338/32/99	1619/27/86	2030/28/94
CT3KN	22/5/16	347/13/51	324/16/62	1157/29/88	1527/31/95	2457/31/100
XL3T	151/7/12	701/20/61	1017/27/90	1847/33/99	1263/26/95	1312/24/99

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
K4ZW	32/10/21	216/16/56	306/25/75	866/30/103	1048/29/106	1205/24/100
K5TR	26/10/16	83/18/48	793/30/77	514/32/84	1178/32/97	1289/32/97
W9RE	23/5/11	118/17/53	369/26/74	798/33/103	1025/33/103	991/30/90
KQ2M	18/8/13	201/15/51	92/17/47	595/29/82	1104/26/81	1402/22/89
K3ZO	10/6/6	255/13/49	387/24/72	501/29/81	1098/30/93	797/24/87

WORLD SINGLE OPERATOR ASSISTED ALL BAND

PT5J	8/4/5	130/17/53	613/32/99	1416/36/113	1637/35/121	2424/33/130
KP3DX	45/8/13	304/14/59	1102/25/89	1483/35/103	1174/31/105	1868/32/108
OMØR	210/10/51	577/18/76	846/30/107	1107/36/120	1273/36/124	1142/36/127
V31XX	34/5/7	428/21/65	897/27/88	762/33/96	1595/29/108	2143/31/114
VA2WA	148/9/17	370/16/59	366/22/69	1352/35/109	1408/29/107	1317/27/117

USA SINGLE OPERATOR ASSISTED ALL BAND

K3WWW	32/9/18	173/18/59	432/27/89	701/33/105	888/30/111	1286/28/117
WB9Z	26/8/13	206/20/67	192/28/80	366/37/109	770/35/120	1586/33/131
AA3B	29/10/20	213/17/58	328/23/81	763/33/105	823/30/110	1106/28/118
N2IC	25/8/9	108/20/37	882/29/73	367/36/102	1045/33/112	878/32/115
N3RS	30/10/19	133/16/54	186/25/77	555/36/106	942/31/115	996/28/117

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

P33W	202/10/56	499/19/78	1921/33/120	2435/39/149	1863/38/146	3183/39/151
PJ4G	38/9/16	498/23/79	1690/30/105	1540/36/124	2028/36/128	3205/34/129
E7DX	52/11/52	701/22/90	1832/34/132	1616/39/144	2013/35/141	2215/38/140
IR4X	48/9/48	515/20/80	1333/34/120	1700/39/140	2038/39/146	1943/37/141
TM6M	123/11/46	535/19/75	1382/33/114	1491/39/132	1808/37/143	2505/39/139

USA MULTI-OPERATOR SINGLE TRANSMITTER

K9RS	18/9/16	333/16/66	289/28/88	1164/38/123	1001/32/121	1150/28/120
K8AZ	21/10/19	68/16/51	192/28/84	394/34/112	623/31/119	1147/32/123
W7RM	17/7/7	165/22/35	686/31/73	541/36/107	880/35/111	381/26/74
K4RM	16/6/6	182/18/60	198/27/77	457/37/108	608/29/110	750/29/122
*WW4LL	3/2/2	122/13/53	174/24/77	383/32/100	404/27/102	1032/27/112

WORLD MULTI-OPERATOR TWO TRANSMITTER

EA8RM	193/11/47	893/21/83	2221/31/115	2979/39/143	4464/38/147	4692/38/155
P4ØL	72/8/18	576/23/75	2120/28/102	2656/38/115	3739/33/119	2972/32/113
ZF1A	97/6/14	784/20/75	2781/29/109	2897/38/116	4186/34/124	4021/33/126
CR6K	209/12/48	1098/20/84	1718/31/112	2177/37/133	3457/36/128	2978/38/136
EI7M	173/11/46	1196/16/80	1647/34/119	2257/40/123	3358/38/136	2530/36/127

USA MULTI-OPERATOR TWO TRANSMITTER

W3LPL	34/12/28	481/22/81	1126/31/108	1481/39/131	2670/36/141	1822/31/138
K1CC	45/10/29	282/18/72	456/32/96	1380/38/125	1576/33/128	1456/31/126
K9CT	42/9/17	212/22/63	512/29/92	786/38/116	1497/35/126	1716/34/129
K2AX	20/8/10	162/13/55	250/26/75	658/34/101	1254/30/116	1432/28/120
W2MKM	18/5/6	153/14/49	193/27/78	888/34/113	1284/30/118	1042/28/119

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

D4Z	209/15/54	1306/23/89	2856/35/119	4819/39/145	4850/37/144	5222/39/153
CN3A	313/12/53	1981/25/101	3150/32/124	4093/38/144	4328/36/142	4693/39/149
PJ2T	227/14/29	954/23/86	2656/30/118	3490/38/130	3973/33/115	4429/34/123
K3LR	340/14/37	903/23/86	2040/36/129	2767/40/158	3158/38/148	4273/33/142
M6T	581/11/57	1744/21/95	3377/36/131	2570/39/142	2823/38/144	1847/35/133

USA MULTI-OPERATOR MULTI-TRANSMITTER

K3LR	340/14/37	903/23/86	2040/36/129	2767/40/158	3158/38/148	4272/33/142
K1LZ	178/16/50	729/23/83	1336/33/112	2361/40/145	2667/37/140	2472/33/137
WX3B	22/5/9	218/14/52	751/28/86	1927/38/117	2227/32/127	1855/30/123
K1TTT	178/12/33	397/21/74	828/28/95	1425/37/130	1713/34/130	1681/29/126
W3PP	16/9/10	120/18/56	170/25/75	1142/37/109	725/30/121	1278/28/119

How Much Time Did You Operate in the 2022 CQ WW?

Operating any contest is an investment in time, especially for serious competitors. For many of us feeling the effects of age, it's a challenge to put in the time it takes to deliver a top score. The CQ WW has an added challenge – it's addicting, especially if we are blessed with the propagation experienced in the 2022 contest.

Operating by yourself as a single operator presents a unique set of physical challenges. However, there are those unique individuals that continue to figure out ways to power through the excuses. As you can see in *Table 2*, there were 14 operators that put in 45+ hours of operating – several of whom were active for the entire 48 hours!

Congratulations to the superman club as well as everyone as a whole who averaged 10+ hours this time around. What's your goal for this year?

Getting it Right in the CQ WW!

This is a list of callsigns that you want to be on – the lowest error rates! Each entry in *Table 3* worked at least 1000 QSOs, submitting logs with less than

1% mistakes (e.g., bad calls, not-in-log reports, bad exchanges). Imagine, in several cases, working 5000+ QSOs and having only ~50 QSOs identified as being invalid. These results demonstrate that delivering a winning log is more than simply delivering the highest raw score; it's also about accuracy.

Congratulations to each of these competitors for setting a fine example of world-class operating!

Our CQ WW Youth Operators are Everywhere!

While there is little debate about the advancing age of ham radio operators

Table 2

Op hours	AF	AS	EU	NA	OC	SA	All
0.1-5	5	162	567	535	64	36	1364
5.1-10	4	124	604	519	85	45	1377
10.1-15	7	120	439	376	57	37	1036
15.1-20	6	58	313	284	38	31	730
20.1-25	6	50	209	194	22	20	501
25.1-30	1	28	122	97	10	13	271
30.1-35	1	17	72	56	11	5	162
35.1-40	2	12	34	33	4	2	87
40.1-45		2	35	18	1	3	59
45.1-48		2	6	4	1	1	14
All	32	575	2401	2116	293	193	5613
Median hours		15.2	10.5	10.3	10.1	9.6	12.3
Median time for all: 10.3 hours							

Table 2 – Operating Time Analysis for the 2022 CQ WW SSB Contest (Single-Op All Band entries)

EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
DM6V	101/8/36	510/10/50	762/21/81	1131/31/90	1097/32/92	1108/32/91
S53MM	176/7/37	725/17/72	734/26/90	1061/32/94	991/31/97	807/34/99
EB5A	61/8/31	391/12/61	698/23/79	398/22/69	914/29/88	1045/33/97
OM7K	148/5/35	357/11/53	786/24/86	964/28/84	602/27/69	330/26/61
HB9TOC	186/7/35	636/14/66	667/21/78	421/22/58	678/27/70	501/24/76

EUROPE SINGLE OPERATOR ASSISTED ALL BAND

OMØR	210/10/51	577/18/76	846/30/107	1107/36/120	1273/36/124	1142/36/127
IR2Q	128/9/44	424/15/71	772/30/101	940/37/123	1175/36/128	949/36/124
LY4A	333/11/57	800/21/84	1091/32/107	1013/35/121	727/30/106	1191/33/138
S53M	72/8/43	704/18/81	976/31/112	741/39/124	787/34/119	856/37/132
SN7Q	130/9/35	511/18/68	437/27/85	1486/33/97	1004/33/103	1014/36/120

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

E7DX	52/11/52	701/22/90	1832/34/132	1616/39/144	2013/35/141	2215/38/140
IR4X	48/9/48	515/20/80	1333/34/120	1700/39/140	2038/39/146	1943/37/141
TM6M	123/11/46	535/19/75	1382/33/114	1491/39/132	1808/37/143	2505/39/139
LZ5R	56/9/44	723/21/83	1674/34/120	1941/40/142	1746/37/141	2124/38/147
EW5A	178/10/51	957/24/94	1423/31/120	1413/40/142	2079/37/145	1657/36/144

EUROPE MULTI-OPERATOR TWO TRANSMITTER

CR6K	209/12/48	1098/20/84	1718/31/112	2177/37/133	3457/36/128	2978/38/136
E17M	173/11/46	1196/16/80	1647/34/119	2257/40/123	3358/38/136	2530/36/127
ES9UKR	364/10/54	1172/23/90	1997/34/124	2652/40/157	2830/38/148	1570/37/144
9A1P	221/8/45	1178/20/81	1599/34/118	2629/40/129	2015/38/136	2044/39/145
ED1R	137/10/46	969/18/76	1792/31/110	1790/38/128	2575/37/134	2598/37/132

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

M6T	581/11/57	1744/21/95	3377/36/131	2570/39/142	2823/38/144	1847/35/133
LZ9W	566/10/56	1819/24/99	2876/34/131	3636/40/146	2343/38/141	1458/37/132
YT5A	587/11/58	1634/22/88	2836/35/123	3340/40/144	2556/37/139	1747/38/138
DFØHQ	805/14/65	1673/23/93	2777/34/128	2250/40/145	2086/37/145	1390/37/136
OT5A	496/8/47	1527/17/74	1990/28/109	1865/39/126	1601/35/121	1131/32/106



Bob, W3HKK, built this low-budget 10M Moxon Yagi just for the CQ WW contest. Who says you need big antennas to have fun?

Remembering Fred Laun, K3ZO

BY KEN CLAERBOUT, K4ZW

I grew up in Cedar Grove, Wisconsin. A short thirty-five-mile trip to the northwest would find you in Kiel, home of the AA Laun Furniture Company. Given that my parents ran a furniture store, I would make frequent trips, while in high school, to Laun Furniture to pick up needed items. During that time, although Fred had moved to the Washington, DC, his legend with the local hams was already well established.

I was once told if you ever heard Fred running a pileup, just yell “Sheboygan County” and he’ll stop the pileup in its tracks and answer you. Shortly thereafter I found HS1ABD on SSB for a new one and I did as I was told. Sure enough, Fred told everyone to stand-by while he worked the station from Sheboygan.

I first met Fred in 1984 after I moved to the DC area. One day, I called him on the phone and he graciously invited me to visit on a sunny Saturday morning. Fred said, “The crew will be here putting up an 80-meter beam.” Really? An 80 meter beam?!? This was the mid-80s. Not many people had rotatable 80-meter yagis back then and still don’t today.

Over the years, like most of you, I came across Fred in almost every contest. There was always that extra “dit dit” at the end of the exchange as a couple of cheeseheads were doing nothing more than exchanging good wishes.

Some years ago I was visiting Fred and he said, “Can I ask a favor?” Not knowing what it was, but coming from Fred, I said, “Of course!” It turned out that he had a couple TenTec Titan amps that needed to be repaired. Fred mentioned, “I understand you have a bench and that you do repair work. Could you look at these amps for me?” Well in fact I didn’t have a bench and I didn’t do equipment repair but I said, “Sure I’ll take a look.” Over time, this unexpected beginning morphed into my becoming the K3ZO station engineer, helping with other projects in the shack. KC1XX and team took care of the outside projects.

One upside to volunteering for this work was that we would get together on a more frequent basis, often going out to dinner together. When COVID



Beloved contester Fred Laun, K3ZO (SK), standing next to one of his many passions — the Yasme QSL collection at Austria’s DokuFunk museum in Vienna, Austria.

hit I would cook up some brats, bring him some Gibberville (WI) cheese, and we would hang out at his place chewing the rag. Topics ranged from ham radio, sports and the Green Bay Packers, our experiences working overseas with the government, and world events. Fred’s degree was in political science, after flunking out from the engineering program at UW Madison. His broad view of the world always provided an interesting perspective. I valued that time together and was happy to have had a hand in keeping his beloved ham station operational, because I knew it meant a lot to him and it was something that kept him active in his later years.

On Sunday morning, December 18, 2022, I was standing in the international arrivals baggage area at Dulles airport having just spent 17 hours on an Ethiopian Airlines flight from Addis Ababa in a cramped economy seat. I was looking forward to getting home. Two calls from the same number came in back-to-back, the second time leaving a voice message. It was his neighbor Roger. Fred was ill and

slipped getting out of bed. At that time, he was alert but too weak to move around on his own. Naturally, I immediately drove over to his house. Shortly thereafter, K4YT’s XYL, a doctor and close friend of Fred, arrived. With the help of paramedics, we moved Fred into Roger’s car and took him to a local hospital at his request. The ensuing days were a blur as we spent many hours together in that hospital room. Sadly, K4YT and I last saw him on Monday, January 2, 2023. Before we left, I squeezed his hand, told him I cared about him, and let him know the Packers kicked the Vikings’ butt on Sunday and that they still had a chance to make the playoffs. He would have taken great delight in that. There was no response. We lost him the next day.

How fortunate we are to have such icons in our club. Like most everyone in the contest world, I’ve never operated a major contest without K3ZO being on the bands. His station will eventually be dismantled. But the memories that so many of us cherish will last forever.

RIP OM. It was a hell of a run.

SINGLE-OPERATOR TOP SCORES IN MOST ACTIVE ZONES

Zone 3		Zone 15	
ND7K (@N6WIN).....	3,007,544	S53MM.....	5,834,028
K7RL.....	2,337,120	OM7K (OM7RU).....	3,035,167
K6XX.....	2,272,739	YT3D.....	2,435,860
K6NA.....	1,478,655	S57K.....	2,283,131
W7WA.....	667,800	OH5BM.....	1,584,008
Zone 4		Zone 16	
XL3T (VE3AT).....	9,135,758	*UA3BL.....	543,968
K5TR.....	5,005,155	R3RZ.....	390,033
W9RE.....	4,980,048	*RC5Z.....	318,396
K0EJ.....	2,636,412	*R6KX.....	293,917
VC3R (VE7VR).....	2,323,322	*UT3EV.....	287,421
Zone 5		Zone 20	
K4ZW.....	6,017,235	C4W (5B4WN).....	7,784,250
VY2TT (K6LA).....	4,993,944	*4X0T (4Z5FI).....	2,152,332
KQ2M.....	4,467,840	TA3DE.....	1,992,144
K3ZO.....	4,289,844	YP0C (YO3CZW).....	1,779,138
NR3X (N4YDU).....	4,127,820	YM7KA (TA7I).....	1,164,745
Zone 14		Zone 25	
DM6V (DL7FER).....	6,035,036	JH4UYB.....	3,562,173
EB5A.....	4,027,944	JF2QNM.....	1,791,325
HB9TOC.....	2,775,852	JF1NHD (N6VI).....	1,574,703
DL2CC.....	2,677,106	JH7QXJ.....	1,259,760
EA5DFV.....	2,543,590	HL2WA.....	1,038,800

Table 3

Entrant	Continent	Power	Raw Qsos
P40T (VE3DZ)	SA	HIGH	6021
WP3C	NA	LOW	4980
DM6V (DL7FER)	EU	HIGH	4754
WH7T (WH7W)	OC	HIGH	4474
ED8M (EA8DIG)	AF	HIGH	3301
9N7AA (S53R)	AS	HIGH	2620
KH6CJJ	OC	LOW	2336
OA4SS	SA	HIGH	2143
K6XX	NA	HIGH	2049
4X0T (4Z5FI)	AS	LOW	2019
K0EJ	NA	HIGH	1947
FG5GP	NA	LOW	1842
PY2KJ	SA	HIGH	1463
K1BX	NA	LOW	1414
OK2MBP	EU	LOW	1408
ZD7BG	AF	HIGH	1395
YO3RU	EU	HIGH	1373
K6NA	NA	HIGH	1359
PC2T	EU	HIGH	1309
OE1HHB	EU	LOW	1227
DP5P (DL1MHJ)	EU	LOW	1175
WW4XX (LZ4AX)	NA	LOW	1174
KN2M	NA	HIGH	1152
OH2PQ	EU	HIGH	1099
G9P (M0NCG)	EU	LOW	1017
OL5Y	EU	LOW	1016

*single operator, all band entries only
 **99+% callsign accuracy with >1000 QSOS

Table 3 – Accuracy Winners for the 2022 CQ WW

overall, it's exciting to see the participation by the Youth crowd (25 years old or younger) in the CQ WW. Table 4 demonstrates that the youth phenomenon is certainly global in nature with logs having been received from 31 countries, led by Germany which squeaked out a log entry win over the U.S. participants.

A Few Words from the Director

It's rewarding to this log checker that the vast majority of this year's operators played by the rules, submitting some of the cleanest logs we have seen in years. Unfortunately, there are still some notable challenges, particularly in the areas of:

Self-spotting (while allowed by some contests, it is still not permitted in the CQ WW),

Out-of-band operation (this is a combination of operating outside of IARU/country restrictions or the bounds of your current license class),

Recordings (this continues to be a challenge as many scoring leaders are not providing requested audio recordings making it more difficult to defend the log entry's claims),

Interlocks (the rules are clear; interlocks for multi-op stations are required to prevent simultaneous in-band transmissions and risk of disqualification).

Lastly, one of the least desirable aspects of creating this report each year is to recognize the friends that have left us. And, while I can't acknowledge everyone, there was one spe-

Table 4

Country	AS	EU	NA	OC	SA	ALL
5B	1					1
9A		3				3
BY	9					9
DL		15				15
E7		2				2
EA		1				1
EI		1				1
F		1				1
G		1				1
HA		3				3
I		2				2
JA	4					4
K			14			14
KH0				1		1
LX		1				1
LY		3				3
OE		3				3
OK		2				2
PA		1				1
PY					1	1
SP		8				8
SV		1				1
TA	1					1
UA9	1					1
VE			2			2
VK				1		1
VU	1					1
YB				6		6
YO		2				2
YT		1				1
ZL				1		1
Totals	17	51	16	9	1	94

Table 4 – 2022 CQ WW Youth Entries by Geography

One of this year's Explorer station entries: Here is Jun, BD3CT, blasting away from BY3CQ.



Youth Operators in Action

My First Contact, Andreas Tsiakkouris, 5B4AQT

Hello from the beautiful island of Cyprus! My name is Andreas and I am 12 years old. I was licensed in September 2022, one month before the CQ WW SSB 2022 contest. In fact, my first-ever QSO was my first contact in this year's CQ WW SSB contest with Marios, C4W!

My father, 5B4AFM, has been an amateur radio operator and contester for many years and I was able to see him operate contests and sense the excitement and energy that went into every contest effort. The sound of HF radio and rapid-fashion QSOs was familiar to me but this year was my turn to have a go in the driver's seat!

I was able to operate for about 15 hours, enjoying every single contact and the thrill that came with it. It felt like I was undergoing the ultimate crash course in amateur radio as I was learning all about CQ zones, DXCC entities, openings to various parts of the world, low bands, high bands and the phonetic alphabet with all its variations! At times, it all became quite daunting and when the pile-ups grew out of control I had to take a break. The experience was unforgettable and amazing fun! By the end of the contest, I had more than 1000 QSOs in the log and achieved DXCC!

I am already looking forward to my next contest, becoming involved in the youth community, and meeting new friends from all around the world that share my passion for amateur radio!

Hello from Croatia, Josipa Vincetic, 9A3GVJ

My name is Josipa, 9A3GVJ, from



Here is 12-year-old 5B4AQT at work. Andreas' first ham radio contact was in the 2022 CQ WW SSB Contest!

Croatia. Ever since I was a little kid I have listened to my dad, 9A3AG and other members from my local radio club working big contests. I was amazed by the pile-ups and got hooked on the adrenaline rush, even when I was just listening! For many years I was scared to operate as a single-op in a big contest like the CQWW and would maybe do an hour here and there. But, with the new Youth overlay opportunity, it felt like it was now my chance to see what I can do on my own and against competitors like me.

I participated in the CQWW SSB in 2022 as a single-op, low power, all band entry from my home location. I had a

goal of operating at least 24 hours and making 1000 QSOs. With an operating time of just over 27 hours I reached my goal with over 1000 QSOs! It was really exciting to work with just 100W and discover what I could achieve. I was thrilled to work many new DXCC entities as well as learning rare country names, including many Caribbean islands, while logging my QSOs. While calling CQ, the pileups calling me were amazing — like I always imagined! It was also exciting to “hunt” for stations and trying to be heard amongst a pileup of higher-powered stations. My fear of operating by myself quickly disappeared within the first 15 minutes! Hearing a lot of young

cial individual who we simply can't ignore, Fred Laun, K3ZO. Fred was a long-standing member of the CQ WW Contest Committee. His level-headed guidance was a treasure to my team and to all of you as was his friendship. It was while I was standing in Fred's living room one afternoon nearly 50 years ago that I first became exposed to CQ WW log checking. There are so many things that have been said since Fred passed. Ken, K4ZW, wrote one the best tributes, which I'm honored to include in this write-up. In the meantime, thanks for everything, Fred. You were one of a kind, the likes of which we'll likely never experience again.

And, Finally...

This is my fourth year serving as your CQ WW Director. If I've learned anything through this experience, it's that we have the most dedicated and competent team of log checkers in all of contesting! They make my job so much easier and it's my privilege to give them all the credit for the results being reported this month. In particular, my sincere thanks go to: AA3B, Bud Trench; CT1BOH, José Nunes; EA4KD, Pedro Vadillo; ES5TV, Tonno Vahk; F6BEE, Jacques Saget; G0MTN, Lee Volante; HA1AG, Zoli Pitman; IK2QEI, Stefano Brioschi; JH5GHM, Katsuhiko (Don) Kondou;



Youth operator Josipa, 9A3GVJ, having a blast in the WW! Look at all those QSOs on her computer screen!

voices was amazing. It feels like the network of young hams is growing rather than disappearing.

In my opinion, the new Youth overlay in CQWW is an amazing opportunity for youngsters. It gives the feeling of a "safety net, like you are competing with other youngsters and beginners and not just the big-gun stations. It also eliminates the pressure of having to be perfect and connects youngsters around the world, which is truly needed. I hope to see more and more youngsters submitting their log in the Youth overlay every year and hear them on the air! And, why not consider youth overlays in the multi-op categories too?

Small Station, Youthful Operator, Joseph Bondi, VE3GKT

I'm Joseph, VE3GKT, and at 25 years old, have been licensed just shy of

three years. I operated the 2022 CQWW SSB from my second-floor bedroom in the Toronto area, with a 40-meter EFHW and 100 watts from my IC-7100. The window is about 15 feet above ground with the wire sagging down from its peaks of 30 feet in the backyard tree. I feel like I've done very well, especially for such a low antenna! It was a blast to work so many excellent operators, and it was very interesting to work some of the Caribbean stations on several bands and to hear propagation changes throughout the day/night cycle. The high point was working FR4KR, Reunion Island, on 10m SSB!

Although I'm still learning how to become a better HF contester, my operating situation at home is not the most comfortable. In the meantime, I'm gaining more experience including activating POTAs, plus some Limited Rover operations in VHF contests and, of course, looking forward to the next WW.

Exploring the CQ WW Contest

BY FERNANDO, EC3A

I'm Fernando, EC3A (formerly EA3KU). For some time, together with two other colleagues - EB4Z and CT1DRB, I have collaborated with the HF Committee of the Unión de Radioaficionados Españoles – URE in Spain. The result was that our team entered the Multi-Operator Explorer category in the 2022 CQ WW contest as EA4URE.

Taking advantage of the recently created Multi-Distributed category for the CQ WW WPX and the Explorer overlay in the CQ WW, our team eagerly anticipated the possibility of participating in these contests and categories. The objective was simple: to encourage our teammates to participate in contests, teach the use of currently available technological tools and improve everyone's contest operating techniques.

As our planning began, we discovered that operators wanted to be part of a team in the multi-multi category while also using their own stations. In the end, our group was a multi-multi team with a mixture of both expert and inexperienced operators, using a variety of LP or HP stations and antennas ranging from simple dipoles, vertical or small yagis distributed throughout the territory of operation. All that was absolutely required was a share of the shack's personal computer and the radio station itself (transceiver, antenna and amplifier for those participants who had them) to support the following technical goals:

- Chat and videoconferencing software for meetings required for planning, pre-contest coordination, etc. of all group.
- Logging software. N1MM+ properly configured to perform interlock functions in stations to guarantee compliance with the contest rules, guaranteeing that only one simultaneous signal is transmitted per band/mode.
- Communications software to implement the VPN network required by N1MM to implement the distributed computer network.
- Assurance that the interconnection of all the PCs of the N1MM+ network received the information of the DX Cluster Network from the master computer that was connected to the DX Cluster server of EA4URE-5.
- Availability of the chat window during the contest that N1MM+ incorporates as a communication tool between the different team operators.

The operation of the infrastructure was perfect. The network worked without interruption during the entire 48-hours of the contest and the software used, together with the strategy for its use, allowed team members adequate operating time according to their availability. The resynchronization option between the different PCs on the network worked correctly when, due to circumstances, some of the PCs on the network were temporarily disconnected and reconnected later.

Additionally, my role or that of another assigned member of the HF Board of URE, ensured that the connection status of the different PC's of the group stations was supervised and monitored as well as the correct operation of the interlock requirements between the RUN and S&P stations.

In the end, we want the EXPLORER category to be maintained and included in other contests as it is a good way to encourage participation in contests and integrate new technologies.

*73 and good DX, Fernando, EC3A
(formerly EA3KU 1979-2020)*

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 Iglund; LU5DX, Martin Monsalvo; OH6LI, Jukka Klemola; PA3AAV, Gert Meinen; RA3AUU, Igor (Harry) Booklan; S50A, Tine Brajnik; S50XX, Kristjan Kodermac; UA9CDC, Igor Sokolov; VE3EJ, John Sluymer; VK2IA, Bernd Laenger; YO3JR, Andrei (Andy) Ruse.

The next CQ WW SSB contest is only a short six months away! I hope to hear you in October!

*73, John, K1AR, CQ WW Contest Director
(Scores begin on page 92)*

A Makeshift CQWW Yagi and Other Antenna Musings

BY BOB ELEK, W3HKK

With only a few days to go before the beginning of the 2022 CQ WW SSB contest, I decided to build a 10-meter Moxon from my scrap heap of spare parts (see W3HKK photo). Being a lightweight antenna, I was able to erect it on a 16-foot PVC mast located on our rear patio, turning it by the old-fashioned Armstrong method. That little antenna did an amazing job, giving me a taste of what it was like back when I had a KT34XA at 60 ft, and ruled the world on 10-15-20. It's hard to appreciate an ugly duckling that cost nothing to build – that is UNTIL you put it to the test in the CQWW!

The contest and DX bug has always been part of my operating experience since joining the ranks of ham radio in 1956. My long ham radio story of make-shift antennas includes operating experiences in 1969 when I was working in offshore seismic oil exploration based in Takoradi, Ghana. Having purchased a Swan 500C in London, I brought the radio with me into Ghana, stopped by the Ghanaian PTT on a lark and inquired about obtaining a ham license with the Director, Mr. Amatewee. In reality, he was actually more interested in whether I thought we would actually find oil than anything else. But, within five days I had his signature on my license as 9G1GS. And, while the timing wasn't right to operate in the CQWW, I borrowed some tower sections and a spare rotator from the ship's supplies, hired four local kids to chop some bamboo for me, and built a 2-el 15m quad, carried it through the lobby of the Hotel Atlantic and onto the beach in Takoradi.

One day I heard a guy with an unusual accent talking on 15 Meter SSB to his "press agent" near Washington, DC. After about a half hour of listening to reports about his crew and his vessel, I learned it was a papyrus raft floating on the currents off the coast of Ghana. He mentioned his name (Thor) and that he would continue daily updates as the stern of his boat was reportedly slowly sinking into the sea. I finally figured out it was Thor Heyerdahl of Kon-Tiki fame, trying to cross the Atlantic on his recently built vessel, the "Ra." Heyerdahl went on to build a second Ra raft with improvements in design and made the trip a second time one year later, reaching Trinidad before the crew finally had to abandon ship and be rescued. I was able to hear it all with via his single radio transmitter and small antenna. Having read his books as a kid and then being able to listen to him via ham radio as he tried another death-defying adventure was amazing. How great was that for a young kid just out of college who has since had many DX and contest adventures of his own?