

Results of the 2022 CQ World Wide WPX CW Contest

BY BUD TRENCH*, AA3B

Thank you, Oleg, EI7KD, for the opportunity to take part in my favorite contest. – EI/US2YW

First time ever that I participated in a WPX CW Contest! My little QRP station, it gave me a lot of satisfaction! – IZ4AFL

What great fun. Of course, the conditions are never perfect but that did not spoil the fun. – TF1AM

The band are the bands. Nothing broke, everything worked, Yeah! I had fun. – WA8Y

One of my mentors advised that increased sunspot activity brings both improved propagation and increased likelihood of solar disturbances. His wisdom proved accurate for the 2022 edition of the CQWW WPX CW contest. We were teased by conditions prior to the contest, particularly on the high bands. However, the K-index started to shoot up the day prior to the contest and peaked at 7 around 0600 UTC on the first day, meaning that geomagnetic storms were going to be part of our reality for yet another Cycle 25 operating event.

Figure 1 provides a recap of the CQWW WPX CW logs processed for 2022. Nearly 2 million (M) QSOs were validated based on logs received from 127 DXCC entities. Twenty meters was the most active band, accounting for 39% of all QSOs, followed by 15 and 40 meters at roughly 25% each.

Participation was down by over 20% compared to 2021 and QSOs were off by 31%. Europe was particularly impacted with QSO reductions of 44% from last year. The likely contributing factors to the reduced participation include the war in Ukraine, CQ's policy restricting participation by stations in Russia and Belarus, and resumption of life as normal after Covid-19 impacts.

Single Operator Stellar Performances

Figure 2 shows the breakdown of Single Operator category selections by continent. The percentages of entries in

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OM2VL was one 17 Single Banders who operated the full 36 hours enabling a 20-meter High Power win.



WM3T (NY3A) watching the spectrum on his way to third-place finish in the Single-Op All Band Low Power category.

Metric	Continent							2021
	AF	AS	EU	NA	OC	SA	ALL	
Logs	24	731	2,006	1,552	175	178	4,666	5,960
Operators	26	819	2,272	1,665	199	188	5,169	6,637
DXCC	10	25	50	20	11	11	127	134
Prefixes	16	210	606	523	80	78	1,513	1,819
Reported QSOs By Band (Post Log Checking)								
160M	0	516	16,715	569	41	0	17,841	38,379
80M	605	3,806	93,237	18,814	349	286	117,097	225,368
40M	3,701	25,182	275,477	167,645	7,856	5,902	485,763	787,066
20M	6,496	56,985	378,079	290,171	16,186	15,127	763,044	1,263,208
15M	8,524	83,574	167,941	179,120	20,580	27,191	486,930	397,031
10M	2,952	21,084	28,212	21,270	8,991	25,959	108,468	171,229
All	22,278	191,147	959,661	677,589	54,003	74,465	1,979,143	2,882,281
Average Productivity								
QSOs/Log	928	261	478	437	309	418	424	484
QSOs/Opr	857	233	422	407	271	396	383	434

Figure 1. 2022 activity level summary by continent

each of the three power categories are nearly identical to the 2021 profiles, suggesting that single operators are creatures of habit when it comes to category choices.

Figure 3 provides operating times for the Single-Op All Band categories. As in 2021, about 60% of the operators exited after 12 hours and 90% by 24 hours. There were 136 entrants in the All Band category along with 17 Single Banders who went the full 36 hours.

CR3DX (OM3RM) was the winner of the Single-Op High Power (HP) category, as he was in 2019. Note that CR3DX operated by OM3GI was also the winner 2021, so CR3DX has appeared in the number 1 slot for three consecutive years. H25A (LZ2HM) came in second, despite having the most frequently busted call (406 times) in the contest. LZ5R (LZ5DB) had the highest multiplier count of any single operator and repeated as number three.

P44W (W2GD) notched his sixth Single-Op Low Power (LP) win at his home away from home in Aruba. VE3DZ was planning a vacation-style operation from Bermuda but changed his plans after obtaining special callsign VP9UKR (Support Ukraine). He put together a competitive low power SO2R station using equipment and supplies borrowed from the locals to achieve second place. Third place went to WM3T (NY3A) who returned to the LP category for the first time since 2003.

K3WW can add achieving a second consecutive victory in the Single-Op

Category	Continent							Average per Entry	
	AF	AS	EU	NA	OC	SA	All	Op Time (Hours)	Score Reduction
Single Op High Power Entries									
All Band	6	143	399	551	33	20	1,152	15	10%
Single Band	2	67	205	105	18	26	423	14	11%
Single Op Low Power Entries									
All Band	6	250	694	609	48	55	1,662	12	11%
Single Band	3	161	298	120	32	52	666	9	13%
QRP Entries									
All Band	0	26	86	58	12	3	185	11	9%
Single Band	0	30	67	29	21	7	154	9	13%

Figure 2. Single operator participants by continent

9A22Y

CQ WW WPX Contest 2022

Ukraine

powered by:

UR7EU
Alex

US8ICM
Max

UW1GZ
Jim

UR5ECW
Alex

9A22Y is an inspirational Multi-Two effort powered by remote operations from Ukraine!

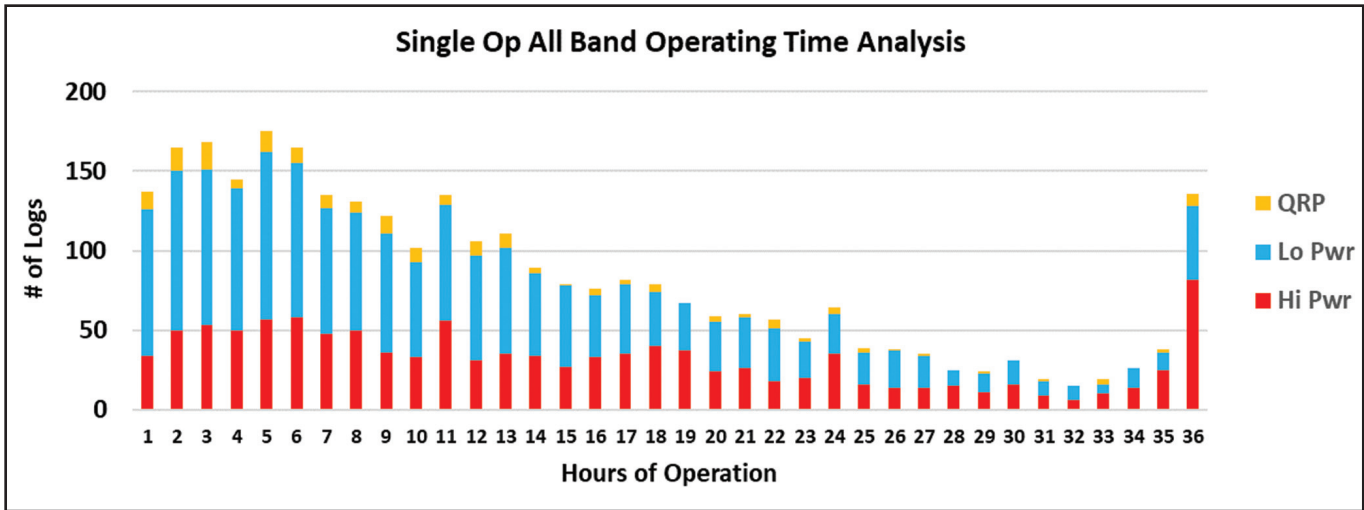


Figure 3. Single operator all band operating time histogram

QRP category to his extensive list of radiosport accomplishments. DM2M (DK3WE) moved up to second from his fourth place QRP finish in 2021.

Single-band highlights included OL1A (OK1CW) achieving his TENTH consecutive 160-meter QRP win. OL4W (OK1IF) also continued his win streak with a fifth 80-meter QRP victory. DQ2C (DL2SAX) narrowly beat HA1TJ in the 80-meter HP category in a race that boiled down to log accuracy. 9A5Y (9A3LG) decided to spend a “few minutes” checking out 40 meters, which turned into a full out effort and a 40-meter HP win. The difference between OM2VL and PP4T (PY2LSM) in the 20-meter HP category was likely operating time; OM2VL came out on top thanks to operating the maximum time permitted. EF3O (EA3O) won 15-meter QRP after winning 20-meter QRP in 2021. LU8DPM, operated by LU1DJX who was a Rookie in 2021, dominated the single-band 10-meter LP category.

Additional Opportunities to Excel – Overlays

The Single Operator Tribander – Wires (TB-Wires) overlay is for participants with antennas that meet the following requirements: A single feedline for the single antenna used on 20 / 15 / 10 meters and single-element antennas for 160, 80, and 40 meters. Separate receive antennas are not permitted. This is the most popular overlay as shown in Figure 4.

CT3KN captured his first ever win of the HP TB-Wires after finishing third in both 2020 and 2021; his score was up by more than 60% from last year. N3QE had the best HP TB-Wires results in

North America (NA) and was second overall. The top two spots in the LP TB-Wires both belong to Germans: DK5DQ (#1) and DJ5MO (#2). NU2A (N2YO) found his new Hex Beam to be a strong performer on his way to the top LP TB-Wires score in the U.S.

The Classic overlay is for single operators using one radio, without QSO finding assistance, and their score is based

on the first 24 hours of their airtime. There were 43 Classic overlay participants who made it to the 24-hour operating time limit. KP2M (KT3Y) was the top gun in the HP Classic for the second year in a row. Second place was earned by ED8W (OM5RW). NN7CW tried the HP Classic for the first time with impressive results – he was first in the U.S. In the LP Classic, the World cham-

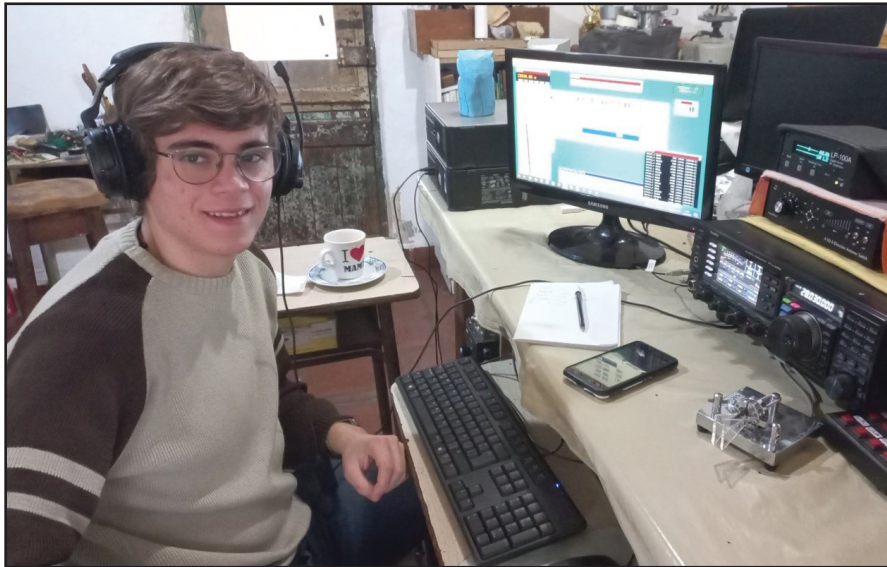
Category	Continent						All	Average per Entry	
	AF	AS	EU	NA	OC	SA		Op Time (Hours)	Score Reduction
High Power Overlay Entries									
TB-Wires	3	24	75	90	7	5	204	16	10%
Classic	1	10	50	58	11	7	137	13	9%
Rookie	0	2	3	2	0	0	7	8	25%
Youth	0	0	8	0	0	0	8	28	11%
Low Power Overlay Entries (Includes QRP)									
TB-Wires	1	52	163	90	13	13	332	14	9%
Classic	2	54	158	96	16	10	336	11	12%
Rookie	0	6	11	14	4	0	35	12	14%
Youth	0	13	7	7	2	1	30	12	7%

Figure 4. Single-Op overlay participation summary

Achievements by Operators Aged 25 or Younger	Call	Age
Highest 60 minute rate (125)	M6T (M0SDV)	21
Lowest Score Reduction (1.2%)*	W8UA	16
Youngest Op, Youth Overlay Top 10, High Power	EA2RCP (UR5YKO)	15
Youngest Op, Youth Overlay Top 10, Low Power	EI8KW	13
Highest QRP Score (63K)	YC1LJT	21
Highest Single Band Score (675K)	IR1N (IU1LCU)	24

*Score greater than 100K

Figure 5. Noteworthy achievements by operators aged 25 or younger



pion was UN4L and KR5X (K1BX) was runner up, with VX3KI (VE3KI) a close third.

The Rookie Overlay is intended to attract new contesters licensed under three years. There were 43 Rookies this year, of which 13 are in their final year of eligibility with 19 in Year 2 and 11 in Year 1. YD6HVF was the newest Rookie, licensed in April 2022. Congratulations to OL2J (OK5MAX) for a dominant win in LP Rookie; his was the highest score among all Rookies. KO4VW won the U.S. LP Rookie honors. The HP Rookie winners were EI6LA (World) and K3KEK (U.S.).

LU8DPM (LU1DJX) dominated the 10-meter Single Band Low Power category.

2022 CQWW WPX CW TOP SCORES

WORLD

Single Op All Band High Power

CR3DX (OM3RM)17,938,549
H25A (LZ2HM)15,775,552
EF8R (EA8RM)15,511,572
LZ5R (LZ5DB)15,020,324
CR6K (CT1ILT)12,874,720

Single Op 28 MHz High Power

LW1F (LU5FC)3,374,198
PY2BK2,880,060
LT6M (LU8MHL)1,909,096

Single Op 21 MHz High Power

ZX5J (DJ4CW)6,937,200
P49Y (AE6Y)6,579,417
TM4W (F4DXW)3,699,186

Single Op 14 MHz High Power

OM2VL5,226,681
PP4T (PY2LSM)4,817,925
YT3X4,772,196

Single Op 7 MHz High Power

9A5Y (9A3LG)4,760,184
OK7W4,647,882
S52AW3,501,575

Single Op 3.5 MHz High Power

DQ2C (DL2SAX)840,360
HA1TJ820,800
SP2PIK (SP2MKI)779,898

Single Op 1.8 MHz High Power

YT8A205,380
LYQA (LY7M)196,784
9A73KD (9A2KD)159,782

Single Op All Band Low Power

P44W (W2GD)9,775,087
VP9UKR (VE3DZ)6,089,928
IY3A (IZ3EYZ)6,083,261
WM3T (NY3A)4,784,650
OL5Y4,634,916

Single Op 28 MHz Low Power

LU8DPM (LU1DJX)2,230,039
PQ5B (PP5BZ)1,637,057
LO7H (LU1HLH)1,216,656

Single Op 21 MHz Low Power

ED1R1,702,272
ES7A (ES7GM)867,336
YT9W857,584

Single Op 14 MHz Low Power

IF9A (IT9PPG)2,021,976
ES7GN1,774,590
YU5M1,703,592

Single Op 7 MHz Low Power

YU7WW1,330,875
E797WARD (E73AA)999,792
OM3CQ894,516

Single Op 3.5 MHz Low Power

SO7M (SP7IFM)456,092
OL5J413,492
YU1ED400,325

Single Op 1.8 MHz Low Power

OK6Y (OK2PTZ)142,943
SNØR (SQ9IAU)114,695
DR9OTJU (DL6KWN)93,888

Single Op All Band QRP

K3WW2,747,416
DM2M (DK3WE)2,539,839
ON6NL1,646,390
LY9A1,600,446
DK7HA1,540,554

Single Op 28 MHz QRP

4I1EBC246,120
4F3OM99,962
N4IJ34,845

Single Op 21 MHz QRP

EF3O (EA3O)585,849
AA1K310,100
SV1JG195,597

Single Op 14 MHz QRP

KA4RRU504,138
S51Z340,008
G2X (GØDCK)231,192

Single Op 7 MHz QRP

OK6OK440,134
CO8OH273,726
PG2AA269,598

Single Op 3.5 MHz QRP

OL4W (OK1IF)352,268
SP7M83,467
UN9LDC44,436

Single Op 1.8 MHz QRP

OL1A (OK1CW)82,533
DL1AOB31,920
HA1TI6,496

Multi-Single High Power

D4Z18,939,090
UP2L17,128,440
ZF1A14,483,864
E7DX13,296,761
WU2X12,942,860

Multi-Single Low Power

UN4Q7,613,994
LY5W4,626,680
YL4U3,686,245
LY2J3,375,952
JA6GCE3,319,845

Multi-Two

ES9C18,247,320
IQ2CJ17,908,800
OL3Z15,595,524
HG7T15,153,544
DQ1A13,992,564

Multi-Multi

9A1A25,605,468
YT5A23,229,255
LZ9W22,185,384
NH7T16,202,780
LN8W13,743,581

Multi-Distributed

ZM1A15,617,665
PV2K12,026,916
OT7T8,870,960
EA1URA5,083,644
9H6A4,397,221

Rookie High Power

EI6LA182,640
DL3ON117,192
K3KEK54,927
VA6BGE17,316
9V1PL2,320

Rookie Low Power

OL2J (OK5MAX)1,440,738
KO4VW358,848
VE3KOT319,956
KY4ID286,976
KY4GS256,038

Classic High Power

KP2M (KT3Y)9,048,600
ED8W (OM5RW)8,393,936
ZF2SS (KO7SS)6,550,155
PJ2T (W19WI)5,996,067
DJ5MW5,106,240

Classic Low Power

UN4L3,115,080
KR5X (K1BX)2,393,373
VX3KI (VE3KI)2,377,648
9M6NA (JO4JKL)1,890,900
WQ5L1,799,634

Tribander / Wires High Power

CT3KN9,169,552
N3QE5,525,370
HZ7C (Z1SJ)4,084,800
MM9I4,066,440
LZ3ZZ3,846,699

Tribander / Wires Low Power

DK5DQ3,852,505
DJ5MO3,681,558
DL4FN3,301,500
SP9XCN3,072,784
DL6RAI2,945,070

Youth High Power

M6T (MØSDV)5,380,608
YTØC4,900,386
EA2RCP (UR5YKO)1,668,641
LY5AX1,519,144
IR1N (IU1LCU)675,288

Youth Low Power

5B4AQC (DK6SP)3,983,847
KM4SII1,903,611
YD2UWF401,792
JH1UPL211,816
EI5LA206,590

UNITED STATES

Single Op All Band High Power

AA3B10,836,378
K1LZ7,688,480
AJ1I (K1ZZ)7,505,722
NU5A (K5GN)7,397,958
KQ2M7,148,424

Single Op 28 MHz High Power

WB9Z248,492
NS1L (N6SS)240,990
K3PA96,520

Single Op 21 MHz High Power

K3UA (@K3LR)3,342,324
K1KI2,288,363
K2SSS2,121,668

Single Op 14 MHz High Power

K3LR (N2NC)3,918,096
NA6TT (N6CW)2,253,916
N2BA1,951,460

Single Op 7 MHz High Power

AB3CX2,562,390
WK1O2,218,755
KØRF1,922,778

Single Op 3.5 MHz High Power

W3BGN258,318
WV4P59,408
W6XI7,398

Single Op 1.8 MHz High Power

K5UR11,376

Single Op All Band Low Power

WM3T (NY3A)4,784,650
KQ1F (K1XM)4,596,647
AC1U (N1UR)3,651,552
KD5DD (N4OGW)3,438,336
WN1GIV (N4BP)3,207,548

Single Op 28 MHz Low Power

NN4AC (N3AC)12,328
W6JPL (K6ICS)8,586
NC6V7,938

Single Op 21 MHz Low Power

WB4TDH441,976
NSJR437,076
WA1FCN225,568

Single Op 14 MHz Low Power

W7UT280,606
NU8A198,484
KW6AA126,492

Single Op 7 MHz Low Power

AA4NP442,884
NØNI411,424
NS3T224,612

Single Op 3.5 MHz Low Power

N4OO19,440

Single Op All Band QRP

K3WW2,747,416
N7IR575,016
W1FJ557,406
W6JTI515,147
AC2YD419,547

Single Op 28 MHz QRP

N4IJ34,845
KW7R3,267
W2VRK1,440

Single Op 21 MHz QRP

AA1K310,100
WA6FGV14,364

Single Op 14 MHz QRP

KA4RRU504,138
W5LA25,414
KF4AV18,792

Single Op 7 MHz QRP

K4XL134,550



The Youth overlay was offered for the first time this year targeting operators aged 25 or younger. The 38 Youth overlay participants ranged in age from 13 to 25 years. It is encouraging to see that the average operating time for Youth Overlay High Power participants was the highest of any single-op cohort at 28 hours, and their average score reduction was the lowest at 7%.

M6T (MØSDV) has an impressive resume at age 21 including multiple contest and DX expeditions; he can now add a World win of the HP Youth overlay to his list of achievements. YTØC, also age 21, was second overall, and

NU2A (N2YO) earned the top U.S. score in the Low Power, Triband-Wires Overlay category.

NE6M.....	31,165
W4RYW.....	8,680
Multi-Single High Power	
WU2X.....	12,942,860
KU1CW.....	5,565,120
WK9M.....	5,184,927
AG3I.....	3,921,148
N4QS.....	3,907,139

Multi-Single Low Power	
KA9VVQ.....	89,056
NJ1F.....	20,520

Multi-Two	
N14W.....	13,354,120
K9CT.....	11,896,596
KC7V.....	8,248,756
NX6T.....	7,584,168
WD6T.....	6,810,027

Multi-Multi	
NR6O.....	9,373,580
KT7E.....	3,720,276
WA3EKL.....	2,186,794
K3CT.....	738,204
KD2RD.....	492,633

Multi-Distributed	
WC7Q.....	3,237,696
WU5K.....	973,080

Rookie High Power	
K3KEK.....	54,927

Rookie Low Power	
KO4VW.....	358,848
KY4ID.....	286,976
KY4GS.....	256,038
KI2D.....	61,533
KO4AWC.....	36,285

Classic High Power	
NN7CW.....	4,899,223
KM1W (W1UE).....	4,048,380
KZ5D.....	1,930,494
K6AR.....	1,696,080
AJ6V.....	1,575,890

Classic Low Power	
KR5X (K1BX).....	2,393,373
WQ5L.....	1,799,634
NK4O.....	1,056,480
K3JT.....	1,034,055
W4SPR.....	930,465

Tribander / Wires High Power	
N3QE.....	5,525,370
KQ4R.....	3,206,952
AB2E.....	2,308,493
N1TO.....	2,263,734
K3MD.....	2,100,189

Tribander / Wires Low Power	
NU2A (N2YO).....	2,621,457
WC4E.....	1,966,888
NE9U.....	1,792,089
N1EN.....	1,645,622
K1TR.....	1,636,944

Youth Low Power	
KM4SII.....	1,903,611
W8UA.....	167,307
KE8HBV.....	105,780
KD9LSV.....	57,057
N4JEH.....	1,440

EUROPE

Single Op All Band High Power	
LZ5R (LZ5DB).....	15,020,324
CR6K (CT1ILT).....	12,874,720
OMØR (OM3GI).....	10,051,683
HG3R (HA3NU).....	9,962,304
OM7M (OM5ZW).....	9,812,789

Single Op 28 Mhz High Power	
HA5JI.....	491,436
YT1X.....	333,720
DH8BQA.....	242,170

Single Op 21 Mhz High Power	
TM4W (F4DXW).....	3,699,186
S5ØK.....	2,940,520
EF5U (EA5U).....	2,602,410

Single Op 14 Mhz High Power	
OM2VL.....	5,226,681
YT3X.....	4,772,196
ED3O (EA3CX).....	4,767,360

Single Op 7 Mhz High Power	
9A5Y (9A3LG).....	4,760,184
OK7W.....	4,647,882
S52AW.....	3,501,575

Single Op 3.5 Mhz High Power	
DQ2C (DL2SAX).....	840,360
HA1TJ.....	820,800
SP2PIK (SP2MKI).....	779,898

Single Op 1.8 Mhz High Power	
YT8A.....	205,380
LYØA (LY7M).....	196,784
9A73KD (9A2KD).....	159,782

Single Op All Band Low Power	
IY3A (I23EYZ).....	6,083,261
OL5Y.....	4,634,916
MX7DX (MØUNN).....	4,473,546
OL9R (OK6RA).....	4,412,529
SN7O (SP7IVO).....	4,333,274

Single Op 28 Mhz Low Power	
SV2BOH.....	120,310
IR4Q (IU4MRU).....	71,808
S5V3.....	49,457

Single Op 21 Mhz Low Power	
ED1R.....	1,702,272
ES7A (ES7GM).....	867,336
YT9W.....	857,584

Single Op 14 Mhz Low Power	
IF9A (IT9PPG).....	2,021,976
ES7GN.....	1,774,590
YU5M.....	1,703,592

Single Op 7 Mhz Low Power	
YU7WW.....	1,330,875
E797WARD (E73AA).....	999,792
OM3CQ.....	894,516

Single Op 3.5 Mhz Low Power	
SO7M (SP7IFM).....	456,092
OL5J.....	413,492
YU1ED.....	400,325

Single Op 1.8 Mhz Low Power	
OK6Y (OK2PTZ).....	142,943
SNØR (SQ9IAU).....	114,695
DR9ØTJU (DL6KWN).....	93,888

Single Op All Band QRP	
DM2M (DK3WE).....	2,539,839
ON6NL.....	1,646,390
LY9A.....	1,600,446
DK7HA.....	1,540,554
DG3T (DF5RF).....	1,473,528

Single Op 28 Mhz QRP	
HG3IPA (HA3JB).....	18,177
YO8WW.....	3,838
DL1EFW.....	2,310

Single Op 21 Mhz QRP	
EF3O (EA3O).....	585,849
SV1JG.....	195,597
LZ2RS.....	151,751

Single Op 14 Mhz QRP	
S51Z.....	340,008
G2X (GØDCK).....	231,192
9A2EY.....	129,480

Single Op 7 Mhz QRP	
OK6OK.....	440,134
PG2AA.....	269,598
SP6EY.....	149,568

Single Op 3.5 Mhz QRP	
OL4W (OK11F).....	352,268
SP7M.....	83,467
SP8OOE.....	23,310

Single Op 1.8 Mhz QRP	
OL1A (OK1CW).....	82,533
DL1AØB.....	31,920
HA1TI.....	6,496

Multi-Single High Power	
E7DX.....	13,296,761
ED7W.....	11,123,304
HG6N.....	10,375,088
SP8R.....	10,306,780
OK5Z.....	9,199,883

Multi-Single Low Power	
LY5W.....	4,626,680
YL4U.....	3,686,245
LY2J.....	3,375,952
HG22TISZA.....	2,856,646
HG5C.....	2,586,337

Multi-Two	
ES9C.....	18,247,320
IQ2CJ.....	17,908,800
OL3Z.....	15,595,524
HG7T.....	15,153,544
DQ1A.....	13,992,564

Multi-Multi	
9A1A.....	25,605,468
YT5A.....	23,229,255
LZ9W.....	22,185,384
LN8W.....	13,743,581

Multi-Distributed	
OT7T.....	8,870,960
EA1URA.....	5,083,644
9H6A.....	4,397,221
EA4URE.....	4,375,952
OG3B.....	3,541,488

Rookie High Power	
EI6LA.....	182,640
DL3ON.....	117,192

Rookie Low Power	
OL2J (OK5MAX).....	1,440,738
YO3HEX.....	159,525
IR4Q (IU4MRU).....	71,808
SP5DJ.....	58,283
OE8ACT.....	18,297

Classic High Power	
DJ5MW.....	5,106,240
TM5T (F5VKT).....	2,674,212
LZ7J (LZ1CL).....	2,366,640
HA8DU.....	1,981,288
YL2VW.....	1,974,820

Classic Low Power	
DL1WA.....	1,329,705
DK3YD.....	1,176,418
OLØA (OK1CZ).....	1,108,870
5Q6EE (O22I).....	1,093,533
DJ3HW.....	777,621

Tribander / Wires High Power	
MM9I.....	4,066,440
LZ3ZZ.....	3,846,699
DL3UB.....	3,704,472
IO6A (IK6QON).....	3,677,714
9A2AJ.....	3,674,835

Tribander / Wires Low Power	
DK5DQ.....	3,852,505
DJ5MO.....	3,681,558
DL4FN.....	3,301,500
SP9XCN.....	3,072,784
DL6RAI.....	2,945,070

Youth High Power	
M6T (MØSDV).....	5,380,608
YTØC.....	4,900,386
EA2RCP (UR5YKO).....	1,668,641
LY5AX.....	1,519,144
IR1N (IU1LCU).....	675,288

Youth Low Power	
EI5LA.....	206,590
IUØLJD.....	105,525
DP4X (DJ4MX).....	35,868
2MØGUI.....	21,060
E7ØAW.....	14,382

On the Cover



Jelmer Vos, DJ5MO, has been a ham since 1996 and a contester since 2001, but he says he's still learning, "which is what I really like about our hobby in general and HF contesting in particular." Born in the Netherlands, Jelmer has lived in Germany since 2009. He works as an (RF) IC design engineer and is married with two children.

Introduced to radio as a young teen via CB and shortwave listening, Jelmer received his first amateur license at age 17. He says he had limited antenna possibilities at his parents' house, but tried several homemade wire antennas, along with building his own amplifiers and tuners. As an electrical engineering student at the time, Jelmer says his early ham experience "really helped in learning HF design."

Asked to join a multi-op contest team at PA1TT in 2001, he quickly became addicted to contesting. He and a group of friends decided to form their own contest group, PA6Z, and built a well-equipped multi-op station, which was in use until 2012, when the owner sold the property. Living in Germany at that point, Jelmer decided to focus on contesting from his home station (an IC-7700 transceiver, a tribander with 3 elements each on 20 and 15 meters plus 5 elements on 10, a rotary dipole for 40, a full-size dipole on 80 and an inverted-L on 160).

"Single-op contesting from home is really different from a multi-op situation," Jelmer noted. "I had to learn a lot, e.g., when to be on what band, when to sleep, and what antennas work best in my situation." He adds, "I prefer CW for contesting, and usually participate in the low power section of the CQWW and CQ WPX as main events. Having only a moderate station from my location in Europe, I believe the best result can be achieved with low power CW." It's clearly an effective strategy, as Jelmer finished this year's WPX CW Contest (results article on page 13) in second place worldwide in the Tribander / Wires overlay of the Single-Op / Low Power category! (Cover photo courtesy DJ5MO)

Category	Continent						Average per Entry		
	AF	AS	EU	NA	OC	SA	All	Op Time (Hours)	Score Reduction
Multi-Single HP	1	13	27	21	2	3	67	33	12%
Multi-Single LP	0	5	20	3	3	0	31	26	11%
Multi-Two	0	4	19	12	1	0	36	40	12%
Multi-Multi	0	3	4	7	1	0	15	36	10%
Multi-Distributed	0	2	7	3	1	1	14	36	15%

Figure 6. Multi-Operator participation summary



OL2J (OK5MAX) was the winner of the Rookie Overlay.



M6T (M0SDV) at age 21 took first place in the High Power Youth Overlay.

Highest QSO Points/QSO by Stations Operating 36 or More Hours														
Category	Africa		Asia		Europe		N. America		USA		Oceania		S. America	
Single Op AB HP	CR3DX	3.61	C4W	3.33	S53MM	2.94	CF2T	3.28	K3RA	3.02	VK6T	4.02	-	-
Single Op AB LP	-	-	5B4AQC	3.74	OL9R	2.88	VP9UKR	3.31	KQ1F	2.90	9M6NA	3.31	P44W	3.71
Single Op AB QRP	-	-	-	-	DK7HA	2.45	K3WW	2.59	N7IR	2.02	-	-	-	-
Single Op SB HP	-	-	-	-	OK7W	3.31	K3LR	2.22	NA6TT	1.88	-	-	-	-
Single Op SB LP	-	-	-	-	ES7A	1.95	-	-	-	-	-	-	-	-
Multi-Single HP	D4Z	3.59	UP2L	3.43	DA2X	2.73	ZF1A	2.93	WU2X	2.89	7A2A	3.10	CE3CT	3.39
Multi-Single LP	-	-	UN4Q	3.23	DP7D	2.50	-	-	-	-	-	-	-	-
Multi-Two	-	-	BH3GIY	2.04	DM6V	2.70	VX9ML	3.58	WD6T	2.44	-	-	-	-
Multi-Multi	-	-	JA3YBK	2.43	9A1A	2.55	KL7RA	2.90	NR60	2.18	NH7T	3.45	-	-
Multi-Distributed	-	-	9M2A	2.33	OT7T	2.39	WC7Q	1.83	WC7Q	1.83	ZM1A	3.66	PV2K	3.03

Highest Mults Worked/Total Mults (%) for Stations Operating 36 or More Hours														
Category	Africa		Asia		Europe		N. America		USA		Oceania		S. America	
Single Op AB HP	CR3DX	77%	C4W	61%	LZ5R	83%	AA3B	71%	NU5A	65%	VK6T	53%	-	-
Single Op AB LP	-	-	5B4AQC	44%	IY3A	67%	WM3T	56%	KQ1F	53%	9M6NA	37%	P44W	63%
Single Op AB QRP	-	-	-	-	DM2M	45%	K3WW	46%	N7IR	26%	-	-	-	-
Single Op SB HP	-	-	-	-	OM2VL	71%	K3LR	62%	NA6TT	53%	-	-	-	-
Single Op SB LP	-	-	-	-	IF9A	54%	-	-	-	-	-	-	-	-
Multi-Single HP	D4Z	77%	UP2L	78%	E7DX	82%	ZF1A	74%	WU2X	74%	7A2A	44%	PR2E	70%
Multi-Single LP	-	-	UN4Q	57%	LY5W	61%	-	-	-	-	-	-	-	-
Multi-Two	-	-	BH3GIY	34%	ES9C	90%	NI4W	81%	K9CT	79%	-	-	-	-
Multi-Multi	-	-	JA3YBK	59%	9A1A	94%	NR60	70%	KT7E	53%	NH7T	68%	-	-
Multi-Distributed	-	-	9M2A	34%	OT7T	72%	WC7Q	53%	WC7Q	53%	ZM1A	72%	PV2K	72%

Figure 7. QSO point and multiplier capture performance benchmarks

16-year-old W8UA was the HP U.S. Youth winner. The LP Youth overlay champion is 5B4AQC (DK6SP), age 24, followed by KM4SII, age 19. Figure 5 exhibits additional young operator noteworthy achievements.

Multi-Operator Masters

Figure 6 shows the breakdown of Multi-Op participation by continent. The percentage spreads of Multi-Op station types reflect a reduction in Multi-Single LP and increase in Multi-Two operations as compared to 2021.

An all-Swiss team of operators came together to celebrate the 70th birthday of Philippe, HB9ARF, and to pilot D4Z to number 1 in the Multi-Single HP category. The Multi-Single HP winner from 2020, UP2L, was second. WU2X was fifth overall and was the only U.S. station in the Multi-Single HP top 10. The Multi-Single LP category was won decisively by UN4Q. The team at ES9C returned to the Multi-Two category for the first time since 2008 and earned a narrow win over IQ2CJ. The highest scoring Multi-Two operation from the U.S. was at NI4W. The 9A1A ops rejoiced at returning to the Multi-Multi category post Covid-19. Despite heavy

Best 10, No Reduction		Best 10, Single Op, >1000 QSOs		
Call	QSOs	Call	QSOs	Reduction
K1HT	233	DK1KC	1,211	0.5%
AB1J	221	SP9XCN	1,680	0.9%
OM7AT	209	WX8C	1,545	1.1%
7K3CZU	174	OV3X (OZ8AE)	1,020	1.1%
AB1U (W6RKC)	141	DL7URH	1,090	1.4%
OH5ZA (OH1ZAA)	140	AJ1I (K1ZZ)	2,656	1.5%
F1TRE	130	DK5DQ	1,812	1.5%
VE2QV	126	DL4FN	1,683	1.7%
JE8KKX	124	KR2Q	1,764	1.8%
K1TW	116	YL2PJ	1,147	1.8%

Best Multi-Op by Category, >500 QSOs			
Category	Call	QSOs	Reduction
Multi-Single HP	WU2X	3,979	4.4%
Multi-Single LP	OZ/DJ5LA	1,023	4.7%
Multi-2	WD6T	2,869	4.7%
Multi-Multi	AG1C	563	7.3%
Multi-Distributed	WU5K	926	5.8%

Figure 8. Exemplary log accuracy

Single Op HP Peak Rates		Single Op LP Peak Rates		Single Op QRP Peak Rates	
Call	Rate	Call	Rate	Call	Rate
CR6K (CT1ILT)	234	P44W (W2GD)	145	DC9RI	110
LZ5R (LZ5DB)	227	P3AA (RN3QO)	142	K3WW	106
H25A (LZ2HM)	217	UN4L	139	LZ50YE(LZ1YE)	90
EF5Y (EB5A)	204	HF74QMP (SP9GFI)	134	LY9A	84

Multi-Op by Category Peak Rates		
Category	Call	Rate
Multi-Single HP	ZF1A	159
Multi-Single LP	UN4Q	133
Multi-2	ES9C	241
Multi-Multi	9A1A	385
Multi-Distributed	OT7T	299

Figure 9. Peak 60-minute rates

How do competitive operators maximize their scores in the WPX contests? It often boils down to selecting bands, on-times, and operating techniques that maximize QSO point production from multiplier-rich regions.

QRN from local thunderstorms, they secured the Multi-Multi category win. YT5A and LZ9W also reported battling heavy QRN but persevered to place second and third, respectively. The teammates at NR6O reported highly variable band conditions and great times on their way to first place in Multi-Multi in the U.S. ZL3CW and ZL3IO decided to try the Multi-Distributed category on the Thursday before the start of the contest. Their approach to synchronizing stations was to share logs via email every several hours. This low tech, two-person team, took ZM1A to top of the Multi-Distributed category. Second place went to PV2K and the winning Multi-Distributed score in the U.S. belongs to the WC7Q team.

Performance Benchmarks

How do competitive operators maximize their scores in the WPX contests? It often boils down to selecting bands, on-times, and operating techniques that maximize QSO point production from multiplier-rich regions. *Figure 7* provides benchmarks for QSO point and multiplier productivity for stations that operated 36 or more hours. The highest QSO points / QSO ratio was 4.02 achieved by VK6T (VK6LW), followed

2022 CQWW WPX CW PLAQUE WINNERS AND DONORS

SINGLE OPERATOR ALL BAND

WORLD - High Power: Steve Bolia, N8BJQ Plaque. Won by: **CR3DX** operated by Tibor Ferenec, OM3RM
WORLD - Low Power: Caribbean Contesting Consortium Plaque. Won by: **P44W** operated by John Crovelli, W2GD
WORLD - QRP: Bill Parker, W8QZA Plaque. Won by: **Charles D Fulp Jr, K3WW**

USA - High Power: Martin Huml, OL5Y Plaque. Won by: **Bud Trench, AA3B**
USA - QRP: John T. Laney, K4BAI Plaque. Won by: **Gary Hembree, N7IR****
USA Zone 3 - High Power: Northern California Contest Club Plaque. Won by: **ND7K** operated by Timothy Coker, W4IX @N8WIN
USA Zone 3 - Low Power: Arizona Outlaws Contest Club Plaque. Won by: **Willie Baber, WJ9B**
USA Zone 4 - High Power: Jerry Rosalius, WB9Z and Val Hotzfeld, NV9L Plaque. Won by: **NU5A** operated by David McCarty, K5GN
USA Zone 4 - Low Power: Jerry Rosalius, WB9Z and Val Hotzfeld, NV9L Plaque. Won by: **KD5DD** operated by Torsten Clay, N4OGW
USA Zone 5 - High Power: Steve Narducci, W9SN Plaque. Won by: **Krassimir Petkov, K1LZ****

EUROPE - High Power: Ivo Pezer, E73A/9A3A Plaque. Won by: **LZ5R** operated by Milen Dimov, LZ5DB
EUROPE - Low Power: Vitor Santos, PY2NY Plaque. Won by: **IY3A** operated by Matteo Marzilli, IZ3EYZ
EUROPE - QRP: Bruce Olney, WY7N Plaque. Won by: **DM2M** operated by Pit Schmidt, DK3WE

AFRICA: Michael Perry, WM1K Memorial by N1RR Plaque. Won by: **EF8R** operated by Juan Hidalgo, EA8RM**
ASIA: Rick Tavan, N6XI Plaque. Won by: **H25A** operated by Andrey Sachkov, LZ2HM
NORTH AMERICA* - High Power: Louisiana Contest Club Plaque. Won by: **KP2M** operated by Philip Allardice, KT3Y
NORTH AMERICA* - Low Power: Dick Green, WC1M Plaque. Won by: **VP9UKR** operated by Yuri Onipko, VE3DZ
NORTH AMERICA* - QRP: Dale Martin, KG5U Plaque. Won by: **Edibel Frias Mesa, CM3EFM**
SOUTH AMERICA: Andrew Faber, AE6Y Plaque. Won by: **PJ2T** operated by Jim Fitzpatrick, W19WI**
OCEANIA - High Power: Lloyd Cabral, KH6LC Plaque. Won by: **VK6T** operated by Kevin Smith, VK6LV
OCEANIA - Low Power: Wes Printz, W3SE/ZL3TE Plaque. Won by: **Rob Van Geen, NH6V @KH6LC**
CANADA - High Power: Radio Amateurs of Canada (RAC) Plaque. Won by: **VC2A** operated by Victor Androsov, VA2WA
CANADA - Low Power: Contest Club Ontario Plaque. Won by: **CG2Z** operated by Pierre Loranger, VA2CZ
JAPAN: Wes Printz, W3SE/ZL3TE Plaque. Won by: **Masa Okano, JH4UJB**
ASEAN (3W 9M 9V DU HS V85 XU XW XZ YB): Champ C. Muangamphun E21EIC Plaque. Won by: **Ron Schiltmans, DU3T**

SINGLE OPERATOR, SINGLE BAND

WORLD - 28 MHz Low Power: Six Stars Contest Station LS1D Plaque. Won by: **LU8DPM** operated by Mario Andraca, LU1DJX
WORLD - 14 MHz: Gene Walsh, N2AA Memorial (by K2SS, K2TW, KR2Q, W2RQ, NN4X) Plaque. Won by: **Laszlo Vegh, OM2VL**
WORLD - 7 MHz: Tennessee Contest Group Plaque. Won by: **9A5Y** operated by Rc Jan Hus, 9A3LG
WORLD - 3.5 MHz: Ranko Boca, 4O3A Plaque. Won by: **DQ2C** operated by Dr Harald Gerlach, DL2SAX
WORLD - 1.8 MHz: Dusko Dumanovic, ZL3WW Plaque. Won by: **LY0A** operated by Algirdas Uzdonas, LY7M
USA - 21 MHz: Charlie Wooten, NF4A Plaque. Won by: **Phil Koch, K3UA @K3LR**
USA - 14 MHz: Kansas City DX Club Plaque. Won by: **K3LR** operated by John R Golomb, Jr, N2NC
USA - 3.5 MHz: Wes Printz, W3SE / ZL3TE Plaque. Won by: **Steven Sussman, W3BGN**
USA - 1.8 MHz: Jim Galm, W8WTS Plaque. Won by: **Rick Roderick, K5UR**
EUROPE - 21 MHz: Vince Weal, K4JC Plaque. Won by: **TM4W** operated by Van Langhenhoven Stephane, F4DXW
EUROPE - 3.5 MHz: Ranko Boca, 4O3A Plaque. Won by: **Felber Gyula, HA1TJ****

OVERLAY CATEGORIES

WORLD - Tribander/Single-Element: Scott Wright, K0MD Plaque. Won by: **Ricardo Martins, CT3KN**
USA - Tribander/Single-Element: Mike Polom, NE8P Plaque. Won by: **Tim Shoppa, N3QE**
USA - Tribander/Single-Element Low Power: Ron Sigismonti, N3RS Plaque. Won by: **NU2A** operated by Ciprian Suffitchi, N2YO
EUROPE - Tribander/Single-Element: Matija Brodnik, S53MM Plaque. Won by: **John Dundas, MM9I**
WORLD - Rookie: Val Edwards, W8KIC Memorial by K3LR Plaque. Won by: **OL2J** operated by Adam Stepanek, OK5MAX
USA - Rookie: Chris Kantarjev, K6DBG Plaque. Won by: **Steve Randall, KO4VV**

Category/Overlay	Region	New Record		Previous Record		
		Call	Score	Call	Score	Year
Multi-Multi	Oceania	NH7T	16,193,474	ZL6QH	16,143,840	2004
Multi-Distributed	Oceania	ZM1A	15,617,665	No Entry	-	-
Multi-Single Low	Asia	UN4Q	7,613,994	HS0ZIA	5,235,307	2015
QRP 20M	North America	KA4RRU	504,138	AA2A	487,461	2021
QRP 15M	Oceania	KH6ZM	169,332	YB5AQB	33,504	2006
QRP 80M	Asia	UN9LDC	44,436	JH10GC	26,307	2011
Low 160M	Oceania	KH7M (KH6ZM)	100	YC0LOW/0	96	2007
Classic High Power	Africa	ED8W (OM5RW)	8,393,936	No entry	-	-
Classic Low Power	Oceania	9M6NA (J04JKL)	2,720,945	V73NS	376,124	2020
Classic Low Power	North America	KR5X (K1BX)	2,393,373	W9SN	2,352,499	2021

Figure 10. New regional records

EUROPE - Rookie: G0CKV, OH1VR, OH2BH, OH2KI Plaque. Won by: **Rafal Lukawiecki, EI6LA****
WORLD - Youth: Ukrainian Contest Club Plaque. Won by: **M6T operated by Jamie Williams, M0SDV**
EUROPE - Youth: G0CKV, OH1VR, OH2BH, OH2KI Plaque. Won by: **Janko Mihailovic, YT0C****

MULTI-OPERATOR, SINGLE-TRANSMITTER

WORLD: Walter Skudlarek, DJ6QT memorial by Rhein-Ruhr DX Association Plaque. Won by: **D4Z operated by HB9AMO, HB9ARF, HB9CAT**

WORLD - Low Power: Mike Goode, N9NS Memorial by Hoosier DX and Contest Club Plaque. Won by: **UN4Q operated by UP1G, UA4Z**

USA: Phil Allardice, KT3Y Plaque. Won by: **WU2X operated by N2QV, K5GO, N5DX**

EUROPE: Andy Ruse YO3JR/YR1A Plaque. Won by: **E7DX operated by E70T, E74A, E76C, E77EA, E77C, E77DX**

NORTH AMERICA*: Rich Strand, KL7RA Memorial Plaque. Won by: **ZF1A operated by NN1C, UT5UDX, W9KKN, K16RRN**

ASEAN (3W 9M 9V DU HS V85 XU XW XZ YB): Champ C. Muangamphun E21EIC Plaque. Won by: **E2A operated by E21EIC, E29TGW**

MULTI-OPERATOR, TWO-TRANSMITTER

WORLD: UA1DZ Memorial by W3UA Plaque. Won by: **ES9C operated by ES2RR, ES2MC, ES5TV, ES4RD, ES5RY, ES5JR, YL3DW, ES1BVG, ES5QA, ES2ADF**

USA: Florida Contest Group Plaque. Won by: **NI4W operated by N4WW, K0LUZ, N4KM, K1MM, W4WF**

EUROPE: Tom Georgens, W2SC Plaque. Won by: **IQ2CJ operated by IK2JUB, IK2QPR, IK2YCW, IK3QAR, IK4VET, IZ1LBG****

MULTI-OPERATOR, MULTI-TRANSMITTER

WORLD: Steve Merchant, K6AW Plaque. Won by: **9A1A operated by 9A5W, 9A9A, 9A7R, 9A6A, 9A5E, 9A3SMS, 9A8A, 9A2EU, 9A7DR**

USA: Mori Young, KR5V Memorial by N5RZ Plaque. Won by: **NR6O operated by N6RO, K3EST, K6AW, N6WM, WA6O, WD6T, WX5S, WU6P**

EUROPE: Jeff Demers, N1SNB Plaque. Won by: **YT5A operated by YT1AD, YT2T, YT3W, YU1BV, YU1KX, YU1YV, YU2FG, YU6DX, YU8A, YU9DX, R7KW****

MULTI-OPERATOR, DISTRIBUTED

WORLD: Sid Caesar, NH7C Plaque. Won by: **ZM1A operated by ZL3CW, ZL3IO**

ADDITIONAL AWARDS

WORLD - Contest Expedition: Phil Goetz, N6ZZ Memorial by Paul Goetz Plaque. Won by: **P49Y operated by AE6Y****
CHINA - Any Multi-op Category: Andrey Sachkov, LZ2HM Plaque. Won by: **BA7MT operated by BH7KBE, BH7PFH, BD7JPC, BG7PXC, BD7KBB**

COMBINED AWARDS

WORLD - Combined Score on SSB and CW: Yuri Blarovich, K3BU Plaque. Won by: **Andrey Sachkov, LZ2HM**

USA - Combined Score on SSB and CW: Bill Fisher W4AN Memorial by KM3T Plaque. Won by: **Richard F Didonna, NN3W**

WORLD - Combined Prefixes on SSB and CW: Norm Koch, WN5N Memorial by K2RED Plaque. Won by: **Milen Dimov, LZ5DB**

CALIFORNIA - Combined score on SSB and CW: Northern California Contest Club Plaque. Won by: **Marko L Mylymaki, N5ZO**

CQ WPX Contest Triathlon Award - Combined Score on RTTY, SSB, and CW (min 500 QSOs per mode): DX-Lodge Roatan (HQ9X) Plaque. Won by: **Milen Dimov, LZ5DB**

CALIFORNIA - Combined Score on RTTY, SSB, and CW: Northern California Contest Club Plaque. Won by: **Bob Wolbert, K6XX**

CLUB AWARDS

World - Combined SSB/CW: CQ Magazine Plaque. Won by: **Yankee Clipper Contest Club**

USA - Combined SSB/CW: Marty Sullaway, NN1C Plaque. Won by: **Potomac Valley Radio Club****

World Triathlon (CW/SSB/RTTY) - Combined Score on RTTY, SSB, and CW (min 500 QSOs per mode): DX-Lodge Roatan (HQ9X) Plaque. Won by: **Bavarian Contest Club**

* Applies only to North American stations outside the USA and Canada

** Denotes awarded to runner-up in category



5B4AQC (DK6SP), age 24, was in first place in the Low Power Youth Overlay category.

CLUB SCORES

UNITED STATES

Club	# Entrants	Score
Yankee Clipper Contest Club	150	267,888,655
Potomac Valley Radio Club	187	193,613,516
Frankford Radio Club	124	155,174,214
Northern California Contest Club	96	132,573,889
Florida Contest Group	67	74,264,644
Society Of Midwest Contesters	115	57,626,631
Arizona Outlaws Contest Club	50	54,197,103
Southern California Contest Club	53	54,052,109
Willamette Valley DX Club	47	43,650,500
Central Texas DX And Contest Club	18	33,312,689
Western Washington DX Club	28	26,755,198
Minnesota Wireless Assn	75	22,299,796
Tennessee Contest Group	39	21,511,032
Alabama Contest Group	19	21,113,681
Texas DX Society	11	18,764,632
Mad River Radio Club	24	17,685,093
DFW Contest Group	30	14,992,740
Swamp Fox Contest Group	19	13,202,827
North Coast Contesters	17	11,876,595
South East Contest Club	36	11,272,663
Kentucky Contest Group	22	11,213,255
Deep Dixie Contest Club	10	9,778,029
Northeast Maryland Amateur Radio Contest Society	25	9,449,825
Carolina DX Association	5	7,684,438
Grand Mesa Contesters Of Colorado	28	7,556,274
Big Sky Contesters	9	7,348,498
Hudson Valley Contesters And DXers	23	7,125,528
Niagara Frontier Radiosport	18	6,260,640
Order Of Boiled Owls Of New York	13	4,375,229
Kansas City Contest Club	12	4,001,836
Bay Area DXers	9	3,606,108
Spokane DX Association	17	2,547,580
Heartland DX Association	7	2,330,044
CWOPS	7	2,288,554
Portage County Amateur Radio Service	10	1,957,258
Bristol (Tn/Va) ARC	12	1,653,338
The Villages Amateur Radio Club	4	1,572,542
Mother Lode DX/Contest Club	7	1,306,937
South Jersey Radio Association	8	1,298,421
New Providence ARC	7	1,298,346
Northeast Wisconsin DX Assn	4	1,275,286
Hilltop Transmitting Assn	4	1,147,434
Silver Comet Amateur Radio Society	5	1,037,140
Rochester (Ny) DX Assn	7	909,143
Hamilton Amateur Radio Club	5	724,497
North Fulton Amateur Radio League	4	592,859
Metro DX Club	4	344,778
Kansas City DX Club	5	344,419
Oh-Ky-In ARS	7	285,502
Sierra Nevada Amateur Radio Society	4	238,729
Skyview Radio Society	4	139,386
Southwest Ohio DX Association	5	85,707
Phil-Mont Mobile Radio Club	5	54,384
Granite State ARA	4	36,186

DX

Club	# Entrants	Score
Italian Contest Club	149	238,552,119
Bavarian Contest Club	219	230,353,552
Araucaria DX Group	60	128,611,360
EA Contest Club	65	117,405,998
Croatian Contest Club	35	85,698,306
Contest Club Ontario	63	83,129,369
Rhein Ruhr DX Association	86	82,950,298
Baltic Contest Club	21	78,064,539
Contest Club Serbia	29	72,119,542
Milara Contest Club	5	58,522,718
HA-DX-Club	15	45,241,104
Slovenia Contest Club	21	43,090,464
Contest Club Belgium	30	42,965,607
Belokranjec Contest Club	10	35,944,632
Clipperton DX Club	15	32,778,334
Lu Contest Group	32	32,745,641
Rio DX Group	61	31,319,287
La Contest Club	8	29,233,463
Contest Club Finland	35	29,189,340
Orca DX And Contest Club	17	28,861,488
Czech Contest Club	21	28,682,422
Kaunas University Of Technology Radio Club	39	27,609,669
VK Contest Club	24	27,106,903
Contest Group Du Quebec	10	25,353,540
Catalonia Contest Club	18	23,956,457
SP DX Club	59	21,018,454
Latvian Contest Club	25	19,132,681
Crows Contest Team	4	16,819,510
West Serbia Contest Club	8	15,115,790
Siam DX Group	22	14,964,634
Radio Amateur Association Of Western Greece	7	14,940,520
Ukrainian Contest Club	9	13,393,246
Associacao Dos Radioamadores Do Parana	9	13,259,962
Chiltern DX Club	9	12,430,052

Club	# Entrants	Score
CE Contest Group	15	11,153,695
RSGB Contest Club	7	10,558,614
RTTY Contesters Of Japan	4	10,249,788
Danish DX Group	19	10,074,882
Thracian Rose Club	30	9,986,250
Zrhnika Contesters	4	9,905,422
European DX Contest Club	5	9,464,658
YB-Land DXing Passion Is	170	9,048,483
5NNDXCC	28	8,024,301
Maritime Contest Club	16	7,362,512
Aripa DX Team	7	6,330,226
Cdr Group	31	6,280,485
599 Contest Club	13	5,819,108
Radioclubul Radu Bratu	5	5,810,813
Ubro	10	5,618,474
ZRHB Contest Club	9	5,590,404
GMDX Group	6	5,537,436
Interest Group RTTY	10	5,388,106
Radiosport Manitoba	9	5,123,286
YB Land DX Club	36	5,004,781
CSA Steaua	4	3,940,974
Okayama DX Club	6	3,897,586
Pellia Up	4	3,110,281
CWSP	7	3,067,325
SP-CW-C	6	2,992,666
Union Francaise Des Telegraphistes	6	2,954,797
Gunma Contest Club	13	2,826,497
Mediterraneo DX Club	4	2,765,404
Bosnia And Herzegovina Contest Club	6	2,717,460
Keymen's Club Of Japan	32	2,622,469
SKØQO Soderotoms Radioamatorer	4	2,323,924
Sharks DX Team	10	2,310,178
Vytautas Magnus University Radio Club	5	2,205,385
SK6AW Hisingens Radioklubb	11	2,181,170
YU1ANO & YU1A Contest Team	6	2,059,211
CS Petrolul Ploiesti	6	1,975,503
599 DX Group	8	1,966,759
Riihimaaen Kolmoseet	5	1,920,394
Philippine Amateur Radio League	7	1,898,444
VU Contest Group	13	1,763,190
CSM Craiova	6	1,733,429
Fuchu Amateur Radio Club	10	1,676,010
Peterborough Amateur Radio Club	7	1,368,115
Cubanos Libres De Patria Y Vida	4	1,348,918
Chilean Pacific DX Group	6	1,228,287
Cabreuva dx	42	1,203,744
Japan Contesters Club	4	1,069,314
YO DX Club	10	948,444
Falcons DX Group	23	937,363
Sharp Ham Club	7	856,729
Lithuanian Contest Group	6	839,128
CSU Pitesti	5	809,119
SK5AA Vasteras Radioklubb	6	789,016
Harcerski Klub Laczności Sp6zhp	5	784,402
CWFJ Group	4	757,911
Radio Club Kvarner Rijeka	9	743,884
Club De Radio Amateur Del Estado De Guanajuato	4	738,167
National Children's Palace	5	677,972
YYP Club	6	670,788
Korea Contest Club	4	615,859
SP9PBB	7	613,056
King's Lynn Amateur Radio Club	8	581,370
Radio Club Venezolano Caracas	5	569,821
West Borneo DX Club	8	526,661
Tipalayo DX Club	5	505,274
Admira Arad	4	487,747
Guara DX Group	9	485,576
7A DX-Contest Club	13	460,430
Nesrac Malaysia	4	448,647
RAAC Cyclades DX Club	4	435,119
World Wide Young Contesters	5	426,408
Grupo DXXE	5	386,848
SK6EI	4	380,667
Radio Officers Assn. RS	4	373,332
9M HF & Amp DX Contest Group	4	356,119
YB6 DX Community	23	307,053
Online Amateur Radio Community	5	295,453
DX101 Contest Club	4	278,386
CSU Brasov	6	251,638
Orari Lokal Bogor	11	165,366
Just For Fun Contest Club	7	119,425
Radiofariol DX Group	8	108,069
Norfolk Amateur Radio Club	4	102,308
SPDXT	4	78,459
A1 Club	5	73,462
The Akita DX Association	4	60,992
Orari Lokal Kediri	6	45,946
NIAR	9	14,770
Radio Club De Panama	4	13,901
Single Fighter DX Group	4	12,516
YB7-DX Club	4	11,941

Club scores with 4 or more entries.

CQ 2023-2024 calendars

We have two calendars to choose from this year.



The CQ Ham Radio Operator's Calendar with fifteen spectacular color images relating to amateur radio shacks and antennas from around the world; DXpeditions to exotic places and fellow hams!

The CQ Ham Shack Project Calendar which features fifteen spectacular color images of amateur building projects.

These 15-month calendars (January 2023 through March 2024) include dates of important Ham Radio events, major contests and other operating events, meteor showers, phases of the moon and other astronomical information plus important and popular holidays.

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by 5B4AQC (DK6SP) (age 24 and LP) at 3.74. The 9A1A crew captured an amazing 94% of all multipliers identified during the log checking process and LZ5R (LZ5DB) was way out in front of all other Single-Ops with an 83% yield.

Check out *Figure 8* to behold the operators who did their utmost to copy the correct calls and serial numbers. DK1KC had only one Not In Log and one incorrect exchange out of 1,211 QSOs — absolutely astounding!

The 2022 rate leaders are provided in *Figure 9*. Note that 14 of the 17 calls shown in *Figure 9* contain four characters which likely contributed to their amazing rates. Imagine how hard HF74QMP had to work to earn a spot on this list!

All world records were unchanged; however, 10 new continental records were established as shown in *Figure 10*. Note that KH6ZM accounted for two new single band Oceania records: QRP 15 meters (KH6ZM) and Low Power 160 meters (KH7M).

Opportunities for Improvement

Enforcement actions were limited and included warnings for out-of-band operation, disallowing the Classic Overlay for stations that were assisted, and disallowing the TB-Wires Overlay for stations using improper antenna configurations.

I received lots of traffic this cycle regarding the TB-Wires Overlay. The purpose of the TB-Wires Overlay is to enable competition by similarly equipped stations, thus the restrictions on the number and types of antennas. It is not intended to cover all potential “antenna deprived” scenarios. It is important to note that only one antenna, fed by a single feedline, is permitted on 20 /15 /10 meters. Please review the rules and FAQ regarding the TB-Wires Overlay and reach out to me if you have questions.

Final Thoughts, Observations, and Praise

My goal while preparing this article was to highlight operating excellence, and I am pleased to observe that 127 calls were cited for their accomplishments. I particularly enjoyed studying the achievements of the Rookie and Youth operators as I anticipate seeing their calls highlighted in future contest results.

It is inspiring to share that 21 Ukrainians competed in WPX CW despite adversity they faced from the war. Many of their operations were

remote or hosted by stations in safe havens. This terrible conflict cannot end soon enough.

The administration of the 2022 CQWW WPX CW would not have been possible without the support of 3V8SS, CT1BOH, DL6RAI, EA4KD, ES5TV, F6BEE, I2WIJ, IK2QEI, JK3GAD, K1AR, K1DG, K1EA, K5TM, K5TR, K5ZD, KM3T, KR2Q, LA6VQ, N5KO, N6TR, N8BJQ,

OH6LI, OK2FD, PA3AAV, PY2WS, S50A, S50XX, SV1DPI, VE3TM, W0YK, WA7BNM, and YO3JR. Please join me in praising their contributions to the radiosport community and CQWW WPX contests.

I hope to see you in the next CQWW WPX CW contest on May 27th and 28th, 2023. Thank you for your participation and 73.

(Scores on page 100)



VK6T (VK6LW) had the highest average QSO points to QSOs ratio of any full time participant.



CR6K (CT1ILT) is the rate champion.

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