

Results of the 2021 CQ World Wide WPX CW Contest

BY BUD TRENCH, AA3B

“We really enjoyed being able to get together once again as a team at one place in these weird CV-19 times.” –Wally, LZ2CJ, on behalf of the LZ9W Contest Team

Are we there yet? The age-old question of weary travelers everywhere. Where are we on the journey to the return of contest normalcy? We’ve certainly made progress. CQWW WPX CW (WPX CW) 2021 participation surpassed the record levels set in 2020. This historic growth was powered by a 46% increase in multi-operator (multi-op) entries and 56% increase in operators as compared to 2020. Further, multi-op metrics exceeded pre-pandemic levels seen in 2019. The surge in multi-op activity was not at the expense of the single operator (single-op) categories, as the number of single-op participants was nearly unchanged from last year, as shown in *Table 1*. More good news — a review of the WPX CW top scores clearly demonstrates the resumption of contest expeditions. Now, if Cycle 25 would just kick in.

Speaking of Cycle 25, conditions were lackluster for 2021. QSO counts were down on all bands as compared to 2020, with 10 meters seeing a 50% hit due to the lack of Sporadic-E (E_s) skip. The reported QSOs total shown in *Table 2* is down by 10% from 2020.

Single Operator Jetsetters

The single-op log profile for 2021 shown in *Table 3* is nearly identical to that seen in 2020. Single-op, All Band, Low Power is by far the most popular category in WPX CW. It’s interesting to note that High Power entries tended to have lower score reductions, and the split between All Band and Single Band contestants was nearly identical for QRP entries.

So how many rest stops did you take during the trip? Total on-time preferences vary by power level; the average on-times were 16 hours for High Power, 12 hours for Low Power, and 11 hours for QRP. A total of 198 single-op



Jozef, CR3DX (OM3GI), pushed two keyboards to win the Single-op, High Power category

Category	2021		2020		Change	
	Logs	Operators	Logs	Operators	Logs	Operators
Multi-Op	201	878	137	563	64	315
Single-Op + Other	5,759	5,759	5,775	5,775	(16)	(16)
Total	5,960	6,637	5,912	6,338	+48	+299

Table 1. 2021 vs. 2020 submitted logs and operator counts

Metric	Continent						All
	AF	AS	EU	NA	OC	SA	
Logs	20	865	3,029	1,708	155	183	5,960
Operators	20	1,020	3,347	1,851	199	200	6,637
DXCC	9	25	60	16	11	13	134
Prefixed	12	265	866	528	63	85	1,819
Reported QSOs By Band (Post Log Checking)							
160M	47	1,400	35,167	1,751	7	7	38,379
80M	1,242	8,211	188,693	26,284	224	714	225,368
40M	4,686	58,919	472,214	227,364	12,840	11,043	787,066
20M	7,281	137,566	675,281	415,026	16,721	11,333	1,263,208
15M	5,296	53,495	209,657	94,428	9,777	24,378	397,031
10M	2,580	23,800	119,694	20,323	1,208	3,624	171,229
All	21,132	283,391	1,700,706	785,176	40,777	51,099	2,882,281

Table 2. 2021 activity level summary by continent

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entrants went the full distance — 153 were All Band and 45 were Single Band efforts.

OM3GI piloting CR3DX achieved top honors in the Single-op High Power category and narrowly missed breaking the world record he set in 2015 (near the peak of Solar Cycle 24), while 5B4AMM activated P3X for the first time in WPX CW and took second place. LZ5R (LZ5DB) had the most QSOs and highest 60-minute rate of any Single-op participant and placed third overall. R8CT broke the Single-op Low Power record for Asia and was first overall. Perennial Low Power contender 3V8SS (KF5EYY) was a very close sec-

ond, followed by UW7LL. K3WW characterized his winning QRP effort and new North American record as a "casual QRP effort gone wrong." Despite battling local noise issues, LY9A placed second in the QRP category and once again submitted a log with outstanding accuracy. The top QRP score from Asia and third place overall went to UN4L.

D4Z (IK2NCJ) dominated the 10-meter High Power competition from his mountaintop shack overlooking the Atlantic. The results might have been closer if second place finisher IT9VDQ had not lost the six-element 10-meter Yagi at IB9T just three days before the contest. DLØMFL (DL2JRM) was

2020 CQWW WPX CW TOP SCORES

WORLD

Single Op All Band High Power	
CR3DX (OM3GI).....	21,569,807
P3X (5B4AMM).....	18,357,884
LZ5R (LZ5DB).....	17,114,566
KP2M (KT3Y).....	16,728,384
ED8W (OM5RW).....	14,063,840
Single Op 28 MHz High Power	
D4Z (IK2NCJ).....	1,513,803
IT9VDQ.....	575,026
SN2M (SP2XF).....	521,703
Single Op 21 MHz High Power	
4Z4AK.....	3,140,149
RL9Y.....	2,935,309
9A3XV.....	2,268,000
Single Op 14 MHz High Power	
UPØL (UN9LW).....	8,012,622
YT3X.....	7,277,406
DMØA (DK3DM).....	7,117,876
Single Op 7 MHz High Power	
SN3A (SQ2GXO).....	9,673,800
9A5Y (9A7DX).....	8,081,469
OK7W.....	7,513,814
Single Op 3.5 MHz High Power	
S53M (S57UN).....	1,794,960
HA1TJ.....	1,746,733
HG5A (HA5IW).....	1,602,894
Single Op 1.8 MHz High Power	
VY2ZM.....	488,816
DR5X (DL8LAS).....	410,328
9A2KD.....	358,892
Single Op All Band Low Power	
R8CT.....	8,148,119
3V8SS (KF5EYY).....	7,946,778
UW7LL.....	7,034,052
OM8A (OM3RM).....	6,916,842
UF8T (RT9S).....	6,527,260
Single Op 28 MHz Low Power	
DLØMFL (DL2JRM).....	348,059
LZ6E (LZ1GU).....	310,800
RG4A.....	208,861
Single Op 21 MHz Low Power	
TO1A (F6FVY).....	2,650,095
ZW8T (PS8HF).....	1,040,429
IK6VXO.....	723,856
Single Op 14 MHz Low Power	
CN8KD.....	3,006,252
R5AJ.....	2,107,431
YU5M.....	1,900,821
Single Op 7 MHz Low Power	
TM6M (F4DXW).....	5,092,261
OL9R (OK6RA).....	4,424,727
IO4X (IK4ZGO).....	3,987,650
Single Op 3.5 MHz Low Power	
F1UVN (F1AKK).....	1,312,158
LY5I.....	929,760
4Z4KX.....	755,527
Single Op 1.8 MHz Low Power	
OK6Y (OK2PTZ).....	328,000
SNØR (SQ9IAU).....	274,816
SO6C (SP6CIK).....	226,767

Single Op All Band QRP	
K3WW.....	3,095,565
LY9A.....	2,539,920
UN4L.....	2,374,281
DM2M (DK3WE).....	2,253,700
IZ8JFL.....	2,050,268
Single Op 28 MHz QRP	
RA3RA.....	174,460
YØ8WW.....	44,488
OK1LV.....	17,136
Single Op 21 MHz QRP	
LZ2RS.....	162,134
HG3IPA (HA3JB).....	121,828
HG3C (HA3HX).....	70,308
Single Op 14 MHz QRP	
EF3O (EA3O).....	1,023,159
AA2A (N2KW).....	487,461
DJ2SX.....	179,105
Single Op 7 MHz QRP	
DM2DX.....	670,500
OK6K (OK5IM).....	643,860
YØ3FFF.....	633,570
Single Op 3.5 MHz QRP	
OL4W (OK1IF).....	607,824
YT5YTT.....	350,865
S51Z.....	233,568
Single Op 1.8 MHz QRP	
OL1A (OK1CW).....	180,540
DL1AØB.....	48,750
HA1TI.....	37,632
Multi-Single High Power	
ES9C.....	21,147,547
RL3A.....	20,359,070
9A7A.....	17,211,152
RU1A.....	16,731,396
HG6N.....	14,928,375
Multi-Single Low Power	
WP3C.....	10,276,651
VP5M.....	9,771,384
YU5R.....	8,353,065
DP7D.....	8,324,826
RG5A.....	7,418,322
Multi-Two	
OM7M.....	27,181,924
OL3Z.....	22,302,826
UA4M.....	20,901,622
HG7T.....	20,699,970
DM6V.....	18,400,732
Multi-Multi	
LZ9W.....	30,860,620
YT5A.....	30,660,815
OL4A.....	24,554,400
LN8W.....	24,512,415
ND7K.....	16,947,48c7
Multi-Distributed	
UCØB.....	35,176,680
WW1X.....	30,311,008
PT5T.....	23,236,390
OPØHQ.....	19,476,864
LY73BB.....	16,334,400
Rookie High Power	
IR1N (IU1LCU).....	1,563,765
EI8KW.....	211,736

EA5IUY.....	171,248
VK2PW.....	80,419
KO4GBD.....	38,985
Rookie Low Power	
OK5MAX.....	1,548,004
4I1EBC.....	542,717
VA3OKG.....	521,964
W4SSF.....	421,006
YB1RKT.....	151,707
Classic High Power	
KP2M (KT3Y).....	16,728,384
KQ2M.....	10,413,333
P49Y (AE6Y).....	10,094,446
ZL25NZ (ZL3CW).....	7,292,430
RZ9A (UA9BA).....	7,091,344
Classic Low Power	
P4ØA (KK9A).....	4,638,045
MU2K (RL5D).....	2,959,180
W9SN.....	2,352,499
RA9AP.....	1,971,420
LZ7J (LZ1CL).....	1,832,832
Tribander / Wires High Power	
EF8R (EA8RM).....	12,474,319
RU8T (R8TT).....	9,318,873
K2SSS.....	7,544,495
MM9I (GMØOPS).....	6,632,280
N3QE.....	6,360,088
Tribander / Wires Low Power	
3V8SS (KF5EYY).....	7,946,778
UF8T (RT9S).....	6,527,260
UT4LW.....	5,093,501
YL1ZF.....	4,680,009
UR5LAM.....	4,354,812
UNITED STATES	
Single Op All Band High Power	
AA3B.....	13,487,552
K1ZZ.....	11,510,930
KM1W (W1UE).....	11,231,946
KQ2M.....	10,413,333
WC1M.....	9,834,012
Single Op 28 MHz High Power	
WN1GIV (N4BP).....	269,864
NA4W (K4WI).....	177,480
KØVXU.....	5,329
Single Op 21 MHz High Power	
WB9Z.....	982,022
KR4Z (N4OX).....	942,390
AA1K.....	427,672
Single Op 14 MHz High Power	
K3LR (N2NC).....	6,891,380
K1K1.....	6,582,915
KV2K (K2NG).....	6,343,150
Single Op 7 MHz High Power	
K3UA (@K3LR).....	6,517,119
NN3L (N3RS).....	6,063,858
NA6TT (N6CW).....	2,430,864
Single Op 3.5 MHz High Power	
W3BGN.....	291,913

KØRF.....	242,730
KH6ND/NZ7 (KH6ND).....	109,220
Single Op 1.8 MHz High Power	
K3PA.....	2,280
Single Op All Band Low Power	
KQ1F (K1XM).....	5,332,103
KU2M.....	3,878,934
KO2Y (IZ3EYZ).....	3,424,197
WF9A (LZ4AX).....	2,750,412
W9SN.....	2,352,499
Single Op 28 MHz Low Power	
NS3T.....	5,670
Single Op 21 MHz Low Power	
N5YT.....	107,877
WB4TDH.....	82,170
N8BJQ.....	80,793
Single Op 14 MHz Low Power	
NG1R (W1QK).....	1,281,056
N8II.....	2,959,180
AA6AA.....	1,144,090
AA6AA.....	647,280
Single Op 7 MHz Low Power	
N3AC.....	1,218,048
KM4FOC (WA1FCN).....	917,778
WN4AFP.....	763,994
Single Op 3.5 MHz Low Power	
N7NWL.....	11,696
K6EI.....	6,708
KY6AA.....	2,240
Single Op 1.8 MHz Low Power	
N1CGP.....	2,117
W8WTS.....	1,683
Single Op All Band QRP	
K3WW.....	3,095,565
N4IJ.....	607,851
N7IR.....	420,350
W6JTI.....	361,437
W1FJ.....	260,032
Single Op 21 MHz QRP	
K2GMY.....	2,940
WE6EZ.....	2,860
Single Op 14 MHz QRP	
AA2A (N2KW).....	487,461
W2VRK.....	99,012
KF4AV.....	25,088
Single Op 7 MHz QRP	
NE6M.....	47,034
W4ER.....	1,457
Multi-Single High Power	
K3JO.....	11,336,144
NA2U.....	7,529,300
KT6V.....	6,969,135
ND3D.....	6,803,730
NX6T.....	5,649,391
Multi-Single Low Power	
WY7M.....	2,761,840
WE5P.....	673,585
KT3T.....	110,815
KA9VVQ.....	94,668
NJ1F.....	2,516
Multi-Two	
NI4W.....	16,972,659
NS1DX.....	11,777,952

KW1K.....	9,929,360
NJ6G.....	9,724,010
KW7Y.....	8,599,022
Multi-Multi	
ND7K.....	16,947,487
NR6O.....	10,794,386
N1SOH.....	703,800
NN1AA.....	593,681
Multi-Distributed	
WW1X.....	30,311,008
NTØEE.....	4,066,848
KZ1W.....	2,627,749
Rookie High Power	
KO4GBD.....	38,985
KB2S.....	17,440
Rookie Low Power	
W4SSF.....	421,006
KI2D.....	99,960
K4CBW.....	76,475
NR5TX.....	57,477
NA8Q.....	42,930
Classic High Power	
KQ2M.....	10,413,333
KR2Q.....	3,989,237
NO8DX (K8MR).....	3,517,338
WN2O (N2GC).....	3,272,992
KR7O (N6TV).....	3,265,654
Classic Low Power	
W9SN.....	2,352,499
WQ5L.....	1,809,004
NG1R (W1QK).....	1,281,056
N8II.....	1,144,090
NK4O.....	736,005
Tribander / Wires High Power	
K2SSS.....	7,544,495
N3QE.....	6,360,088
KE2D.....	3,746,640
WR8AA (N4ZR).....	3,189,410
KR2AA.....	2,480,485
Tribander / Wires Low Power	
N1EN.....	1,894,599
KM6Z.....	1,853,460
NC8C (W1NN).....	1,788,614
WA4PGM.....	1,329,120
W3RGA.....	1,175,944
TRIATHALON	
RITTY + SSB + CW	
P3X (5B4AMM).....	38,525,785
AA3B.....	28,271,180
LY7Z.....	24,866,038
4X6FR.....	21,206,040
VC3T (VE3DZ).....	20,331,352
COMBINED	
SSB + CW	
P3X (5B4AMM).....	31,708,447
VB3E (VE3AT).....	24,989,493
RM9I.....	22,399,950
OM3GI.....	22,094,991
UW2M (URØMC).....	21,916,824

Category	Continent							Average per Entry	
	AF	AS	EU	NA	OC	SA	All	Op Time (Hours)	Score Reduction
Single Op High Power Entries									
All Band	7	164	568	627	32	34	1,432	16	9%
Single Band	5	90	348	126	21	17	607	15	9%
Single Op Low Power Entries									
All Band	5	314	1,049	612	28	53	2,061	13	10%
Single Band	3	181	540	150	37	54	965	10	12%
QRP Entries									
All Band	0	23	103	59	7	4	196	13	10%
Single Band	0	30	119	27	14	4	194	9	11%

Table 3. Single-operator participants by continent

Category	Continent							Average per Entry	
	AF	AS	EU	NA	OC	SA	All	Op Time (Hours)	Score Reduction
High Power Overlay Entries									
TB-Wires	4	40	127	110	7	7	295	18	10%
Classic	1	20	102	92	6	4	225	16	8%
Rookie	0	1	3	3	2	0	9	9	14%
Low Power Overlay Entries (Includes QRP)									
TB-Wires	2	69	231	112	11	15	440	15	9%
Classic	0	66	242	121	8	10	447	12	11%
Rookie	0	7	14	16	10	3	50	11	17%

Table 4. Single-op overlay entries by continent

Category	Continent							Average per Entry	
	AF	AS	EU	NA	OC	SA	All	Op Time (Hours)	Score Reduction
Multi Single HP	0	12	41	23	3	0	79	34	11%
Multi Single LP	0	9	26	8	6	1	50	31	10%
Multi Two	0	5	11	15	1	0	32	42	11%
Multi Multi	0	3	8	5	1	0	17	31	12%
Multi Distributed	0	4	14	3	0	2	23	36	12%

Table 5. Multi-operator entries by continent



the 10-meter Low Power winner and RA3RA was first in the 10-meter QRP category. The 15-meter High Power race was very competitive between 4Z4AK and RL9Y; 4Z4AK won due to a lower score reduction after log checking. Congratulations to TO1A (F6FVY) on his big win in the 15-meter Low Power category. LZ2RS took the 15-meter QRP category, operating from his car at a portable (and scenic) location. UPØL (UN9LW) earned first place in the 20-meter High Power category by a comfortable margin, followed by YT3X and DMØA (DK3DM) who were separated from each other by only 2%. CN8KD nearly doubled his 2020 score to win this year in the 20-meter Low Power category, as did EF3O (EA3O) in the 20-meter QRP category. SN3A (SQ2GXO) was the 40-meter High Power champion. Number 4 in the 40-meter High Power category was ZL25NZ (ZL3CW) who was celebrating 25 years since emigrating to New Zealand. ZL25NZ was also one of the most frequently busted calls — dits rule. The 40-meter Low Power winner was TM6M (F4DXW) and all the top 10 in this category were from Europe. The first, second, and third place prizes in the 40-meter QRP category went to DM2DX, OK6K (OK5IM), and YO3FFF respectively, and their scores were within a 5% range. YO3FFF's operation featured a homebrewed transmitter. Europe was the place to be for 80 meters. The top 10 scores for each 80-meter power level were dominated by European entries, with S53M (S57UN), F1UVN (F1AKK), and OL4W (OK1IF) winning the High, Low, and QRP categories respectively. VY2ZM moved up to the top slot in the 160-meter High Power category after a second place finish last year. OK6Y (OK2PTZ) dedicated 19 hours of operating time to conquer the 160-meter Low Power category. OL1A (OK1CW) notched his seventh first place in a 160-meter QRP category.

One in four single-ops also elected to compete in an overlay category. The most popular choice was the Tribander / Single Element (TB-Wires) overlay, which was created to foster competition between stations with antenna constraints. Next is the Classic overlay which requires the use of only one radio, no QSO alerting assistance, and scor-

Multi-op entries ROARED back in 2021 as exemplified by the KH6LC Multi-Two Team of: Stan, AH6KO; Rob, NH6V; and Lloyd, KH6LC (pictured front to back).

John, P4ØA (KK9A), won the Low Power Classic Overlay in both WPX SSB and CW this year.



ing is based on the first 24 hours of operation. The rule changes introduced in 2021 were likely the major factor behind the 45% growth in Classic overlay participants as compared to 2020. It's noteworthy that High Power Classic overlay participants had the smallest average score reductions of any category in WPX CW as shown in *Table 4*. A count of 91 entrants achieved 24 hours of operation. Finally, there is the Rookie overlay which is designed to encourage recent licensees to enter contesting.

EF8R (EA8RM) set a new world record for TB-Wires High Power overlay despite the loss of his 80-meter antenna and local noise problems. 3V8SS (KF5EYY) took the TB-Wires Low Power overlay for the fifth time. The Classic High Power overlay was won by KP2M (KT3Y) who achieved 11 million points in 24 hours. Congratulations to P4ØA (KK9A) for winning the Classic Low Power overlay in both WPX SSB and CW this year. IU1LCU used contest callsign IR1N for the first time and achieved a personal record for the number of QSOs made in a contest. Andrea was also the winner of the Rookie High Power overlay. OK5MAX won the Rookie Low Power overlay and operated the most hours of any Rookie operator. The top Rookie overlay score for the U.S. belonged to W4SSF, who has recently been a regular in CW contests.

Multi-Operator Wayfarers

Multi-op activity was up overall as compared to 2020 with significant growth observed in the number of Multi-Single High Power logs from North America and Low Power logs from Europe, along with the addition of the Multi-Transmitter Distributed category. A study of the multi-op metrics provided in *Table 5* shows that score reductions are nearly constant at 11% in all categories. This suggests that a competitive advantage could be achieved by driving these reduction percentages down to single digits.

Two multi-op campaigns featured huge stations with competent operators going head-to-head for 48 hours with the very narrow margins for error. The epic Multi-Single High Power battle between ES9C and RL3A was characterized as an "unprecedented thriller" by both teams. Online scoreboard postings showed frequent lead changes

2021 CQWW WPX CW PLAQUE WINNERS AND DONORS

SINGLE OPERATOR ALL BAND

WORLD - High Power: Steve Bolia, N8BJQ Plaque. Won by: **CR3DX operated by Jozef Lang, OM3GI**
WORLD - Low Power: Caribbean Contesting Consortium Plaque. Won by: **Oleg Usov, R8CT**
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: **Doug Snowden, N4IJ****
USA Zone 3 - High Power: Northern California Contest Club Plaque. Won by: **WK7S operated by Dave Hachadorfan, K6LL**
USA Zone 3 - Low Power: Arizona Outlaws Contest Club Plaque. Won by: **Willie L Baber, WJ9B**
USA Zone 4 - High Power: Jerry Rosalius, WB9Z and Val Hotzfeld, NV9L Plaque. Won by: **Greg Chapoton, NA8V**
USA Zone 4 - Low Power: Jerry Rosalius, WB9Z and Val Hotzfeld, NV9L Plaque. Won by: **KO2Y operated by Matteo Marzilli, IZ3EYZ**
USA Zone 5 - High Power: Steve Narducci, W9SN Plaque. Won by: **Dave Sumner, K1ZZ****

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: **Yaroslav Oleynik, UW7LL**
EUROPE - QRP: Bruce Olney, WY7N Plaque. Won by: **Gediminas Lucinskas, LY9A**

AFRICA: Chris Terkla, N1XS Plaque. Won by: **ED8W operated by Manuel Angel Martin Brito, OM5RW****
ASIA: Rick Tavan, N6XI Plaque. Won by: **P3X operated by Sergey Rebrov, 5B4AMM**
NORTH AMERICA* - High Power: Louisiana Contest Club Plaque. Won by: **KP2M operated by Phillip Allardice, KT3Y**
NORTH AMERICA* - Low Power: Dick Green, WC1M Plaque. Won by: **Noel Matos Sardina, CO8NMN**
NORTH AMERICA* - QRP: Dale Martin, KG5U Plaque. Won by: **Jose De Jesus Enriquez Campos, CO6EC**
SOUTH AMERICA: Andrew Faber, AE6Y Plaque. Won by: **P44W operated by John Crovelli, W2GD**
SOUTHERN CONE (CE CX LU) - Low Power: LU Contest Group Plaque. Won by: **Oscar Vais, LU6OA**
OCEANIA - High Power: Lloyd Cabral, KH6LC Plaque. Won by: **Bernd Laenger, VK2IA**
OCEANIA - Low Power: Wes Printz, W3SE/ZL3TE Plaque. Won by: **Larry Armeson, 4D3X**
CANADA - High Power: Radio Amateurs of Canada (RAC) Plaque. Won by: **VC2W operated by Victor Androsov, VA2WA**
CANADA - Low Power: Contest Club Ontario Plaque. Won by: **XM2Z operated by Pierre Loranger, VA2CZ**
JAPAN: Wes Printz, W3SE/ZL3TE Plaque. Won by: **Masa Okano, JH4UYB**
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: Oliver Droese, DH8BQA Plaque. Won by: **D4Z operated by Luca Allprandi, IK2NCJ**
WORLD - 28 MHz Low Power: Six Stars Contest Station LS1D Plaque. Won by: **DLØMFL operated by Rene Matthes, DL2JRM**
WORLD - 14 MHz: Gene Walsh, N2AA Memorial (by K2SS, K2TW, KR2Q, W2RQ, NN4X) Plaque. Won by: **UPØL operated by Vladimir Vinichenko, UN9LW**
WORLD - 7 MHz: Tennessee Contest Group Plaque. Won by: **SN3A operated by Jerzy Smoczyk, SQ2GXO**
WORLD - 3.5 MHz: Ranko Boca, 4O3A Plaque. Won by: **S53M operated by Lang Renato, S57UN**
WORLD - 1.8 MHz: Dusko Dumanovic, ZL3WW Plaque. Won by: **Jeffrey T. Briggs, VY2ZM**
USA - 21 MHz: Charlie Wooten, NF4A Plaque. Won by: **Jerry Rosalius, WB9Z**
USA - 14 MHz: Kansas City DX Club Plaque. Won by: **K3LR operated by John R Golomb, Jr, N2NC**
USA - 7 MHz: Darin Divinia, WG5J Plaque. Won by: **Phillip I Koch, K3UA @ K3LR**
USA - 3.5 MHz: Wes Printz, W3SE / ZL3TE Plaque. Won by: **Steven Sussman, W3BGN**
EUROPE - 21 MHz: Vince Weal, K4JC Plaque. Won by: **Aleksandar Jugovic, 9A3XV**
EUROPE - 14 MHz: Rafal Dunal, SQ9CNN Plaque. Won by: **Miodrag Jakovljevic, YT3X**
EUROPE - 7 MHz: Hamradioweb.org Plaque. Won by: **9A5Y operated by Rcj Jan Hus, 9A7DX****
EUROPE - 3.5 MHz: Ranko Boca, 4O3A Plaque. Won by: **Felber Gyula, HA1TJ****

OVERLAY CATEGORIES

WORLD - Tribander/Single-Element: Scott Wright, KØMD Plaque. Won by: **EF8R operated by Juan Hidalgo, EA8RM**
USA - Tribander/Single-Element: Mike Polom, NE8P Plaque. Won by: **Zeljko Zee Repic, K2SSS**
USA - Tribander/Single-Element Low Power: Ron Sigismonti, N3RS Plaque. Won by: **Michael D Adams, N1EN**
EUROPE - Tribander/Single-Element: Matija Brodnik, S53MM Plaque. Won by: **MM9I operated by John Dundas, GMØOPS**
WORLD - Rookie: Val Edwards, W8KIC Memorial by K3LR Plaque. Won by: **IR1N operated by Andrea David, IU1LCU**
USA - Rookie: Chris Kantarjiev, K6DBG Plaque. Won by: **Stan Swanson, W4SSF**



Jacky, ZL25NZ (ZL3CW), celebrated 25 years in New Zealand with a special call and big 40-meter High Power effort.

MULTI-OPERATOR, SINGLE-TRANSMITTER

WORLD: Walter Skudlarek, DJ6QT memorial by Rhein-Ruhr DX Association Plaque. Won by: **ES9C operated by ES5TV, ES2RR, ES7GM, ES2MC, ES4RD, ES4NY, ES5QA, YL3DW**
WORLD - Low Power: Mike Goode, N9NS Memorial by Hoosier DX and Contest Club Plaque. Won by: **WP3C operated by WP3C, WP3TT, N2GK**
USA: Phil Allardice, KT3Y Plaque. Won by: **K3JO operated by K1LZ, K3JO, VY2MA**
EUROPE: YO3ND 73rd Anniversary by Andy Ruse YO3JR/YR1A Plaque. Won by: **RL3A operated by RA0I, RA1ZZ, RA3ATX, RA9USU, RL3FT, RN3DNM, RX3APM, UA3ASZ, UA4Z****
EUROPE - Low Power: LZ2PO Memorial by LZ9W Contest Team Plaque. Won by: **YU5R operated by IV3CTS, YO8XXX, YT2AAA, YT7AW**
NORTH AMERICA*: Rich Strand, KL7RA Memorial Plaque. Won by: **VP5M operated by K4QPL, K4BAI, K2SX, KK4R****
ASEAN (3W 9M 9V DU HS V85 XU XW XZ YB): Champ C. Muangamphun E21EIC Plaque. Won by: **7A1A operated by YB1AR, YB1ACN, YB1EGP, YB1AM, YB1PSI, YB1PEF, YB1CIR, YC1NMT**

MULTI-OPERATOR, TWO-TRANSMITTER

WORLD: UA1DZ Memorial by W3UA Plaque. Won by: **OM7M operated by OK2BFN, OM2KI, OM4AZF, OM5RM, OM5ZW**
USA: Florida Contest Group Plaque. Won by: **NI4W operated by N4WW, K1MM, N4KM, K0LUZ, W4WF @N4WW**

MULTI-OPERATOR, MULTI-TRANSMITTER

WORLD: Steve Merchant, K6AW Plaque. Won by: **LZ9W operated by LZ1ZD, LZ1PJ, LZ1FG, LZ2CJ, LZ2HQ, LZ1UQ, LZ3UP, LZ4AE, LZ1BJ, LZ2YO, LZ2UU, LZ1PM, LZ1VS, LZ3FM**
USA: Mori Young, KR5V Memorial by N5RZ Plaque. Won by: **ND7K operated by N6WIN, N6MJ, KL9A, NN1C, W9KKN, W6PH, KN8U, N2IC, N6AN, N5ZO @N6WIN**
EUROPE: Jeff Demers, N1SNB Plaque. Won by: **YT5A operated by YT1AD, YT1HA, YT2T, YT3W, YU1AU, YU1BV, YU1KX, YU1YV, YU2FG, YU6DX, YU9DX****

MULTI-OPERATOR, DISTRIBUTED

WORLD: Sid Caesar, NH7C Plaque. Won by: **UC0B operated by RA0AM, RW0AR, RU0A, RV0AR, RZ0AT, UF0B, RC0AK, UA0ADX, RC9O, UA9PM, RA9P, R9IR, RU9I, RC9HC, RC9HB, RK9UE, RT8U, RX9UK, RW9USA, RV9UP, UA9UR**

ADDITIONAL AWARDS

WORLD - Contest Expedition: Phil Goetz, N6ZZ Memorial by Paul Goetz Plaque. Won by: **ED8W operated by OM5RW****
CHINA - Single Operator, Any Category: LZ9W Contest Team Plaque. Won by: **Ma Zhen, BA4MY**
CHINA - Any Multi-op Category: Andrey Sachkov, LZ2HM Plaque. Won by: **B1Z operated by BA1AAX, BD1RX, BA1AJ, BD1ES, BD1GO, BA1RB, BH3ERS, BG1DX, BG2CTX, BH1LHS, BH1XAL, BD1IJ**

COMBINED AWARDS

WORLD - Combined Score on SSB and CW: Yuri Blarovich, K3BU Plaque. Won by: **VB3E operated by Ron Vander Kraats, VE3AT****
USA - Combined Score on SSB and CW: Bill Fisher W4AN Memorial by KM3T Plaque. Won by: **Bud Trench, AA3B**
EUROPE - Combined Score on SSB and CW: Bavarian Contest Club Plaque. Won by: **UW2M operated by Roman Tkachenko, UR0MC**
WORLD - Combined Prefixes on SSB and CW: Norm Koch, WN5N Memorial by K2RED Plaque. Won by: **Andrius Ignatas, LY7Z****
CALIFORNIA - Combined Score on SSB and CW: Northern California Contest Club Plaque. Won by: **Rich Cutler, WC6H**
CQ WPX Contest Triathlon Award - Combined Score on RTTY, SSB, and CW (min 500 QSOs per mode): DX-Lodge Roatan (HQ9X) Plaque. Won by: **P3X operated by Sergey Rebrov, 5B4AMM**
CALIFORNIA - Combined Score on RTTY, SSB, and CW: Northern California Contest Club Plaque. Won by: **Ed Radio, AJ6V**
World - Club Score: CQ Magazine Plaque. Won by: **Bavarian Contest Club**
USA - Club Score: Marty Sullaway, NN1C Plaque. Won by: **Potomac Valley Radio Club**

* Applies only to North American stations outside the USA and Canada
 ** Denotes awarded to runner-up in category

throughout the weekend. Both teams achieved nearly identical numbers of multipliers, but in the end, the ES9C team prevailed. The second nail-bitter was the clash of Multi-Multi titans LZ9W and YT5A. Their results differed by less than 0.7% and were likely determined by the wrath of Murphy. The ND7K team enjoyed WPX SSB operations so much that they decided to put the band back together again for WPX CW, plus a few hired guns. As with WPX SSB, this team took the top U.S. Multi-Multi honors. Murphy also visited, but did not deter, Multi-Single Low Power victor WP3C, who experienced a loss of commercial power followed by failure of their solar panels. Second place went to the VP5M team, returning to operation for the first time since the start of the pandemic. Radioklub KAPA used the 14-month pandemic shutdown to rebuild and improve OM7M, which likely contributed to their first-place Multi-Two finish. Second place went to OL3Z. UC0B is a special callsign used by the Central Siberia DX Club who are known for their activation of IARU HF Championship headquarter stations R9HQ and R0HQ. Their headquarter station experience likely contributed to the Multi-Transmitter Distributed category first-place finish by this five-station, 21-operator team from Zone 18. Second place was earned by the WW1X crew, comprised of four stations located in Zone 5. The WW1X roster showed 14 members including three teenagers, and participants from five countries.

Bumps in the Road

The WPX Committee wishes to express our appreciation to the preponderance of participants who abided by the rules and submitted their logs per instructions. There were very few issues encountered during our adjudication processes. The largest area for improvement is transmission by entrants on frequencies outside of their license authorization; an excessive number of these QSOs will result in a warning or disqualification. Signal quality remains a watch item, including the presence of harmonics. Please note that valid serial numbers must be included by both QSO partners; 000 or a random serial number is not appropriate. Finally, be advised that Classic

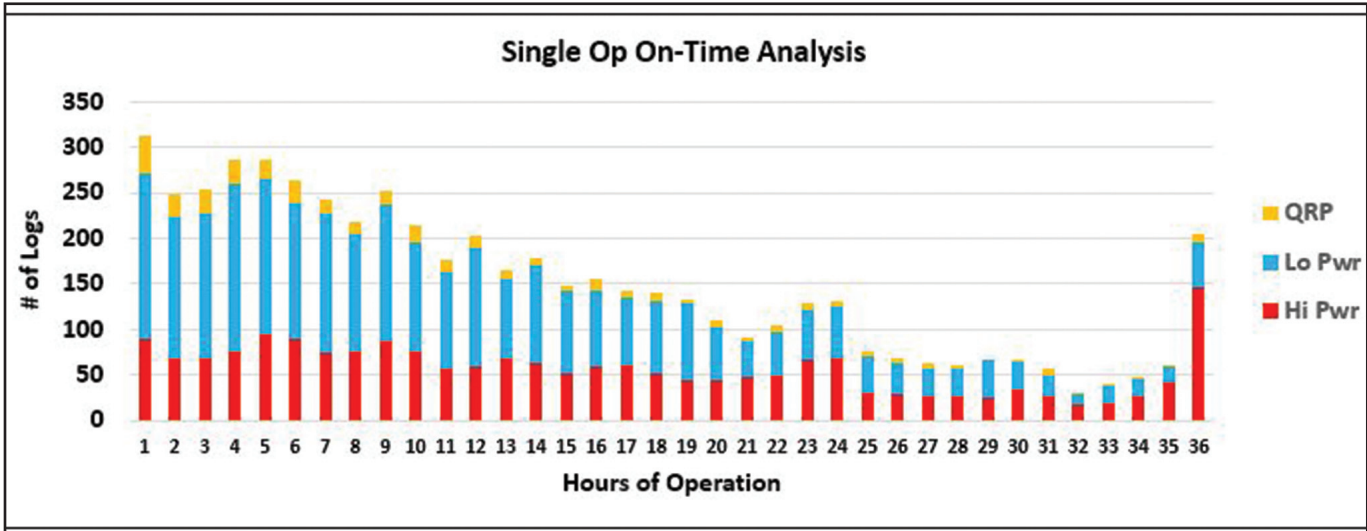


Figure 1. Single-operator on-time histogram

CLUB SCORES

UNITED STATES

Club	# Entrants	Score
Potomac Valley Radio Club	203	221,607,417
Frankford Radio Club	143	188,117,607
Yankee Clipper Contest Club	130	180,572,553
Northern California Contest Club	126	95,538,940
Florida Contest Group	69	87,386,869
Arizona Outlaws Contest Club	64	49,994,260
Society Of Midwest Contesters	133	41,742,272
Southern California Contest Club	58	38,465,909
Western Washington DX Club	31	29,214,926
Mad River Radio Club	22	28,629,023
Tennessee Contest Group	37	28,512,211
Willamette Valley DX Club	52	24,776,772
Minnesota Wireless Assn	71	22,805,080
Central Texas DX And Contest Club	19	15,409,208
Big Sky Contesters	10	15,295,179
South East Contest Club	29	13,595,003
Kentucky Contest Group	20	12,033,809
North Coast Contesters	16	11,113,841
Deep Dixie Contest Club	11	9,442,691
Grand Mesa Contesters Of Colorado	29	8,345,057
Alabama Contest Group	17	8,203,148
NE Maryland Amateur Radio Contest Society	30	8,193,554
Bay Area DXers	9	8,031,245
CWOPS	11	7,807,492
Swamp Fox Contest Group	20	7,142,198
Iowa DX And Contest Club	4	6,284,237
Hudson Valley Contesters And DXers	21	6,177,662
DFW Contest Group	27	5,800,794
Texas DX Society	12	5,716,676
Metro DX Club	9	5,467,824
Niagara Frontier Radiosport	15	4,046,655
Kansas City Contest Club	14	3,166,961
Georgia Contest Group	4	3,119,170
North Texas Contest Club	5	2,940,943
Silver Springs Radio Club	7	2,916,507
Mother Lode DX / Contest Club	5	2,523,485
Order Of Boiled Owls Of New York	11	2,306,182
Carolina DX Association	17	1,735,674
Northeast Wisconsin DX Assn	6	1,542,761
Spokane DX Association	15	1,336,401
Hilltop Transmitting Assn	4	1,308,649
Milford Ohio Amateur Radio Club	4	1,212,324
Portage County Amateur Radio Service	9	1,188,665
South Jersey Radio Association	8	1,123,816
Arkansas DX Association	4	958,652
West Park Radiops	4	918,853
Bristol (Tn/Va) ARC	4	909,577
Rochester (Ny) DX Assn	6	790,755
Long Island CW Club	5	672,769
The Villages Amateur Radio Club	8	553,497
Silver Comet Amateur Radio Society	5	454,739
Oh-Ky-In ARS	7	419,755
Mississippi Valley DC / Contest Club	4	372,578
Skyview Radio Society	4	309,713
Fort Wayne Radio Club	4	300,722
TX Emergency Amateur Communicators	4	289,444
North Fulton Amateur Radio League	7	279,816
Bolingbrook ARS	5	261,054
Orange County (NY) Amateur Radio Club	6	249,328

New Providence ARC	5	221,078
North Carolina DX And Contest Club	5	219,975
Arc Emcomm Srvc	7	208,991
Northern Arizona DX Assn	4	201,040
Hazel Park Amateur Radio Club	4	147,777
Pasadena Radio Club	6	97,251
Port Lavaca ARC	5	77,559
Alexandria Radio Club	4	22,542

DX

Club	# Entrants	Score
Bavarian Contest Club	281	282,014,144
Italian Contest Club	207	240,088,036
Russian Contest Club	97	206,248,739
Ukrainian Contest Club	168	186,316,989
EA Contest Club	72	135,716,622
Contest Club Ontario	76	114,119,866
Baltic Contest Club	26	110,134,713
Contest Club Serbia	52	105,306,638
Rhein Ruhr DX Association	107	98,717,939
Araucaria DX Group	55	86,461,341
Kaunas University Of Technology Radio Club	63	84,760,999
HA-DX-Club	21	72,345,908
Slovenia Contest Club	30	72,171,363
Lz Contest Team	5	63,591,212
Croatian Contest Club	42	62,562,577
Central Siberia DX Club	9	58,764,309
Contest Club Finland	42	57,188,701
Latvian Contest Club	30	52,427,485
Belokranjec Contest Club	15	47,303,463
Contest Club Belgium	40	44,808,600
SP DX Club	60	42,005,613
Belarus Contest Club	29	39,398,558
Ural Contest Group	22	36,819,745
VK Contest Club	25	34,035,928
Milara Contest Club	5	32,333,605
La Contest Club	12	31,575,321
Orca DX And Contest Club	30	29,168,046
Maritime Contest Club	17	28,898,535
Clipperton DX Club	21	25,660,939
Contest Group Du Quebec	14	25,113,415
Rio DX Group	48	23,550,370
Thracian Rose Club	43	22,955,899
West Serbia Contest Club	8	20,189,957
Czech Contest Club	25	20,030,496
LU Contest Group	38	17,260,469
Catalonia Contest Club	21	15,430,923
Vytautas Magnus University Radio Club	14	13,079,978
Aripa DX Team	9	12,291,705
Danish DX Group	23	12,166,629
Siam DX Group	15	12,056,769
Rsgb Contest Club	7	11,340,017
Russian CW Club	39	11,296,112
Vrhnika Contesters	4	11,027,153
Yb Land DX Club	103	10,683,205
ARCK	27	9,637,021
South Ural Contest Club	14	9,326,597
European DX Contest Club	5	8,936,020
5NNDXCC	18	8,733,110
World Wide Young Contesters	9	8,230,862
Chiltern DX Club	17	8,068,475
Interest Group RTTY	6	8,057,863
Bosnia And Herzegovina Contest Club	6	7,541,087
Crows Contest Team	4	7,263,641



Luca, D4Z (IK2NCJ), leveraged his mountaintop location to make his own 10-meter propagation.

Club	# Entrants	Score	Club	# Entrants	Score
Radio Amateur Association Of Western Greece	6	6,792,388	CSA Steaua Bucuresti	4	1,063,563
River Po DX Team	4	5,779,203	Sao Paulo Contest Group	6	1,008,643
Terestina DX Group	4	5,522,764	ZRHB Contest Club	8	938,418
Gipanis Contest Group	10	5,381,692	German DX Foundation	6	926,147
599 Contest Club	13	5,360,780	YYP Club	7	922,469
CSA Steaua	5	5,220,092	Sky Contest Club	5	801,632
Associacao Dos Radioamadores Do Parana	8	5,211,755	Unio Radioficionats Valles Oriental	4	765,796
Three A's Contest Group	5	5,103,631	UR-QRP-Club	5	734,452
Stockport Radio Society Contest Group	12	4,728,359	Volyn Contest Group	5	730,063
Csu Pitesti	7	4,727,685	LA2T Trondheimsgruppen Av NRRL	4	710,237
Giresun Telsiz Ve Radyo Amatorteri Dernegi	7	4,505,634	Krivbass	5	694,864
Yo DX Club	15	4,325,337	Tipalayo DX Club	4	688,140
Ivanovo DX Club	4	4,317,028	Sharp Ham Club	5	683,085
Ce Contest Group	15	4,229,261	Veron A63 Friese Wouden	5	617,209
Radiosport Manitoaba	7	4,180,736	UBRO	4	603,035
Gmdx Group	8	3,972,117	Amsterdam DX Club	4	577,408
Cs Petrolul Ploiesti	9	3,909,361	Chilean Pacific DX Group	5	575,676
Okayama DX Club	6	3,888,900	Philippine Amateur Radio League	4	572,422
Essex CW Amateur Radio Club	4	3,679,126	YB7-DX Club	20	563,153
Radioclubul Radu Bratu	4	3,657,549	LA4O	7	532,507
YU1ANO & YU1A Contest Team	9	3,551,539	Grupo Tortugasw	4	530,631
RU-QRQ Club	14	3,503,144	Peterborough Amateur Radio Club	5	529,139
Keymen's Club Of Japan	31	3,426,348	Cockenzie And Port Seton ARC	6	523,388
VU Contest Group	16	2,972,948	Radio Club Venezolano	6	506,420
S51DSW	4	2,832,217	Saratovskaya Oblast Radio Club	5	488,830
CWJF Group	6	2,809,326	7A DX-Contest Club	7	486,504
CDR Group	44	2,769,832	Orari Lokal Bekasi	4	473,458
ALRS St. Petersburg	6	2,562,513	Grupo Dxxe	6	468,780
Radio Club Venezolano Caracas	9	2,525,639	Ham Society Of The Philippines	9	467,989
Minas DX Group	4	2,406,493	Little Gun Club	4	403,913
J5FC	4	2,383,847	Gacw Grupo Argentino De CW	7	390,405
YBDXPI	51	2,355,580	Cabreuvadx	33	386,092
Csr Braila	4	2,332,867	Single Fighter DX Group	5	297,460
UA2 Contest Club	6	2,260,475	Radio Club Kvarner Rijeka	7	294,910
Radio Club Bunschoten	5	2,166,183	Pilsen Radioclub OK1RPL	4	287,012
Russian Digital Radio Club	5	2,155,826	Papua Contest Club	4	281,888
Vladimir Contest Group	12	2,128,732	Cmdxgroup	6	256,825
Santiago De Cuba Contest Team	5	2,086,922	Bahia DX Group	5	237,430
SK6AW Hisingens Radioklubb	6	2,058,041	CWSP	7	236,372
SK6AA Vasteras Radioklubb	11	2,016,722	Tall Trees Contest Group	5	235,172
Guara DX Group	14	2,012,191	Falcons DX Group	5	221,507
Union Francaise Des Telegraphistes	5	1,975,948	599 DX Group	17	216,765
Admira Arad	6	1,895,306	Hornsea Amateur Radio Club	6	208,602
SK0QO Sodertorns Radioamatorer	4	1,868,242	Japan Contester's Club	5	207,917
ARKTIKA	9	1,813,053	YB6_DX Community	17	198,725
LA-DX-Group	7	1,758,808	Torbay ARS	5	192,507
LKK LVIV Shortwave Club	7	1,693,472	West Borneo HF Radio Club	9	187,564
Fuchu Amateur Radio Club	15	1,636,562	Ari Prato	4	157,311
Spandau Dxers	4	1,611,606	Harwell Amateur Radio Society	4	118,039
Korea DX Group	12	1,583,637	Mumbai Amateur Radio Institute	4	95,404
Mediterraneo DX Club	7	1,561,921	Stratford-Upon-Avon & Amp; District Amateur Radio Society	5	72,019
Sharks DX Team	11	1,519,628	Veron A56 Waterland	4	57,565
CSM Craiova	8	1,510,614	Yogyakarta DX Contest	4	50,739
Norfolk Amateur Radio Club	5	1,508,765	Orari Lokal Kediri	13	40,395
Orari Lokal Bogor	32	1,499,621	Edit14	4	34,982
Novokuznetsk Radio Club	8	1,422,170	SP9PGE	4	33,933
Shakhan Contest Club	4	1,362,842	Just For Fun Contest Club	6	24,587
Saskatchewan Contest Club	5	1,343,796	ABRA-Associacao Beltronense De Radioamadores	4	24,173
The Barbeque Enthusiasts Amateur Radio Club	4	1,335,162	IFM-DX Team	4	9,908
Scan International	16	1,300,621			
National Children's Palace	7	1,168,037			
Japan Lid Club	4	1,157,978			
Lithuanian Contest Group	5	1,123,672			

Club scores with 4 or more entries.



Contest call IR1N was used for the first time ever in WPX CW. Congratulations to Andrea, IU1LCU, on his Rookie High Power Overlay victory.



Paul, KQ1F (K1XM), clawed his way to the top in the U.S. Low Power category. His faithful assistant, Ella, is not a CW op so she sat this one out.

overlay entries are inspected for evidence of assistance or use of a second radio.

Until We QSO Again (dit dit)

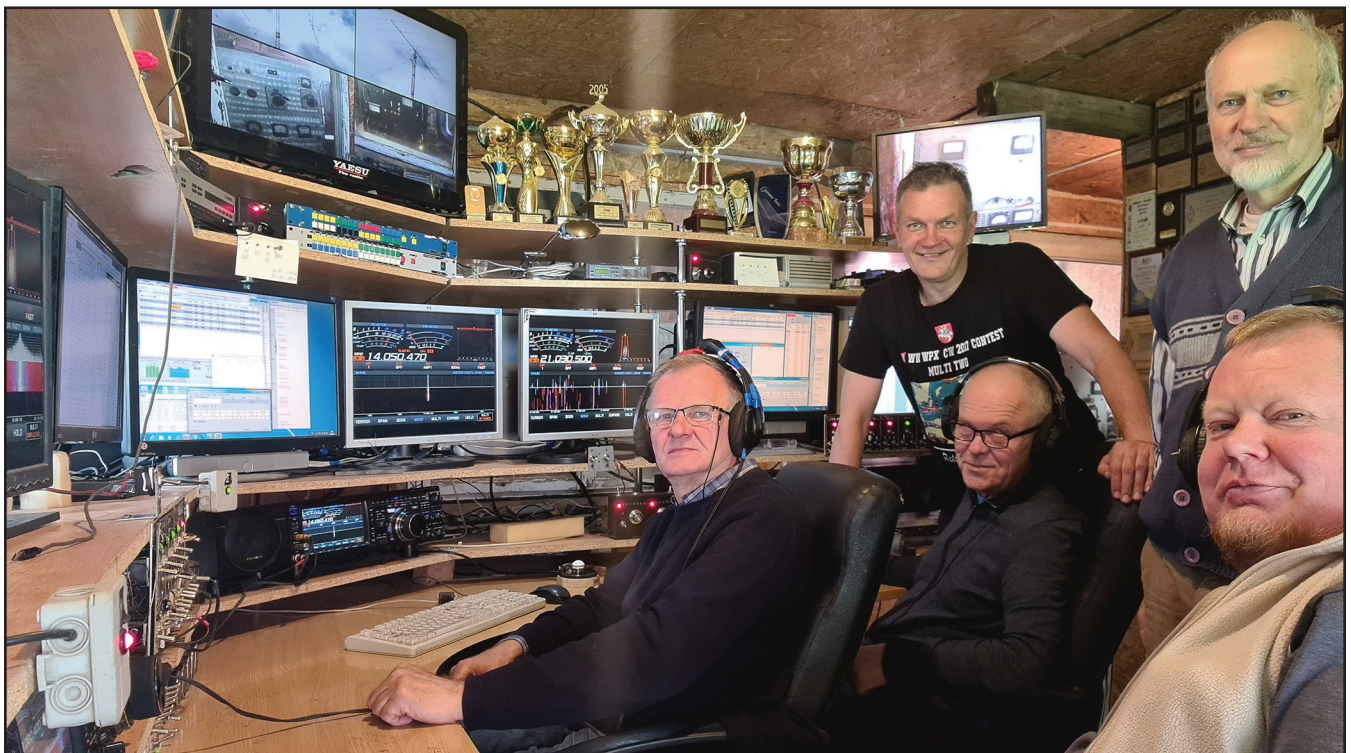
So, are we there yet? After a lot of number crunching, my assessment is that WPX CW outcomes suggest that contesting is progressing towards pre-pandemic norms, but there is still a long way to go. The record turnout in WPX CW (and SSB) demonstrates that the world's foremost "everyone works everyone for points" operating event continues to grow. One must wonder what improving conditions and relaxed travel restrictions will bring!

On behalf of the WPX Committee, I want to thank each of the record number of participants who made this year so successful. I am also grateful to the following volunteers for all their important contributions to the administration of this premiere operating event: EA4KD; ES5TV; F6BEE; HA1AG; IK2QEI; JH5GHM; K1AR; K1DG; K1EA; K3WW; K5ZD; KR2Q; LA6VQ; LU5DX; N5KO; N8BJQ; OH6LI; PA3AAV; S5ØA; S5ØXX; WØYK; WZ7I; and YO3JR.

The 2022 WPX dates are March 26th & 27th for SSB and May 28th & 29th for CW. See you then! Safe travels.

– 73, Bud, AA3B

(Scores on page 97)



LY4A entered as Multi-Two in WPX CW 2021. The team consisted of (from left to right) Seated: LY2TS, LY2CO, LY3AB; Standing: LY24A, LY2BKT.