

Results of the 2021 CQ World Wide WPX SSB Contest

BY BUD TRENCH, AA3B

“WPX SSB continues to be my favorite contest of the season and it never seems to disappoint in participation and fun.” – Kam, TI7W (N3KS)

The prelude to CQWW WPX SSB 2021 was ominous. How would lingering pandemic concerns, uninspiring conditions, and revised rules influence the contest outcomes? I am pleased to report that the radio-sport community demonstrated its resilience to overcome these uncertainties and made this year’s contest one for the record books.

The 2020 running of CQWW WPX SSB occurred shortly after COVID-19 lockdowns were established in many parts of the world. Some of these restrictions were relaxed for 2021, resulting in a significant increase in Multi-Operator (Multi-Op) activity as shown in *Table 1*. While logs were down as compared to 2020, the number of operators hit record levels in 2021, driven by a nearly 2x increase in Multi-Op logs and a nearly 2.5x increase in Multi-Op participants.

Over 2.1 million QSOs were reported as shown in *Table 2*, which provides metrics on activity levels by continent. A comparison of 2021 versus 2020

Category	2021		2020		Change	
	Logs	Operators	Logs	Operators	Logs	Operators
Multi-Op	287	1,228	149	486	138	742
Single-Op + Other	6,989	6,989	7,449	7,449	(460)	(460)
Total	7,276	8,217	7,598	7,935	(322)	+282

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

Metric	Continent						All
	AF	AS	EU	NA	OC	SA	
Logs	57	838	3,365	1,917	618	481	7,276
Operators	67	1,049	3,716	2,096	764	525	8,217
DXCC	15	26	56	19	10	16	142
Prefixes	22	260	888	532	119	141	1,962
Reported QSOs By Band (Post Log Checking)							
160M	0	636	30,774	3,323	23	2	34,758
80M	344	5,448	186,452	54,141	740	1,042	248,167
40M	1,837	39,843	325,276	157,795	55,281	11,167	591,199
20M	8,692	84,911	508,778	249,696	14,422	32,806	899,305
15M	12,050	68,875	102,905	58,896	35,411	65,129	343,266
10M	1,301	4,801	6,552	8,254	3,650	28,446	53,004
All	24,224	204,514	1,160,737	532,105	109,527	138,592	2,169,699

Table 2. 2021 activity level summary by continent

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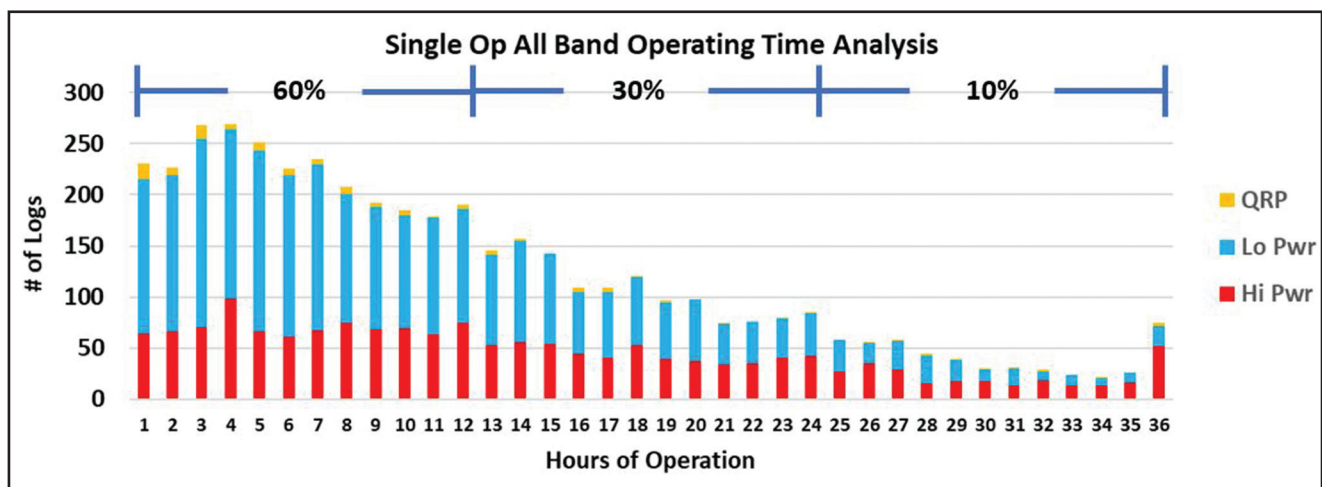


Figure 1. Single-Op All-Band operating time histogram



Antenna farm at UA3DPX courtesy of Alex, UC5C (Single Op, High Power, 20 meters)

2021 CQWW WPX SSB TOP SCORES

WORLD

Single Op All Band High Power
 TI7W (N3KS)19,233,600
 IR4M (IK4MGP)14,071,250
 P3X (5B4AMM)13,350,563
 VB3E (VE3AT)13,008,549
 UW2M (UR0MC)12,892,374

Single Op 28 MHz High Power
 CX2DK1,217,236
 LU1DX454,212
 PP5RT323,338

Single Op 21 MHz High Power
 PT5J (PP5JR)11,827,837
 LU5FC5,387,382
 CV7S (CX7SS)5,135,400

Single Op 14 MHz High Power
 S55OO6,834,681
 S50K6,648,830
 UP0L (UN9LW)6,354,810

Single Op 7 MHz High Power
 IO4X (IT9RGY)11,481,822
 CR6T10,030,726
 IB9A (IT9RBW)8,496,284

Single Op 3.7 MHz High Power
 9A88A (9A1UN)3,001,440
 HG5A (HA5IW)2,928,000
 9A50Y (9A3LG)2,914,890

Single Op 1.8 MHz High Power
 HG0R (HA0NAR)486,948
 SN7D (SQ7D)456,548
 S56X380,250

Single Op All Band Low Power
 P40A (KK9A)10,669,630
 WP3C (N2TTA)5,313,936
 LY4L3,953,191
 HZ1TT3,593,294
 TM3Z (F4DSK)3,229,248

Single Op 28 MHz Low Power
 PU5FJR695,980
 OA4DTU246,675
 CX9ARH154,020

Single Op 21 MHz Low Power
 EB8AH (EA8AH)4,835,198

ZV2C (PY2CX)1,941,819
 OD5ZZ1,512,381

Single Op 14 MHz Low Power
 IF9A (IT9ATF)1,436,796
 PY2NY1,298,219
 LX7I (F4HWS)1,217,091

Single Op 7 MHz Low Power
 OL9R (OK6RA)2,131,862
 4Z5UN1,880,703
 RC7KY1,865,985

Single Op 3.7 MHz Low Power
 PB0OT (PA2TMS)1,335,516
 E74R764,855
 OK1AY700,375

Single Op 1.8 MHz Low Power
 HA8BE292,752
 OK6Y (OK2PTZ)291,368
 PC3T219,741

Single Op All Band QRP
 LY9A915,607
 ES6RW692,040
 LZ1DM606,300
 E74Y494,760
 DL8LR417,240

Single Op 28 MHz QRP
 HS5YLK9,672
 3G3O (XQ3OP)7,228
 PU2VOR2,916

Single Op 21 MHz QRP
 UN4L236,600
 BG7SSK91,332
 YB1UUN79,704

Single Op 14 MHz QRP
 EA5HV738,290
 LY2OU138,684
 YU1NR73,485

Single Op 7 MHz QRP
 IZ1ANK197,160
 S52CQ66,898
 SN5L62,805

Single Op 3.7 MHz QRP
 SQ8MFB57,186
 YU3LAX47,996
 DL8RB10,050

Single Op 1.8 MHz QRP
 DP5A53,144
 LY4T33,082
 HA1TI24,696

Multi-Single High Power
 RL3A21,951,100
 UP2L19,201,083
 E7DX19,082,232
 UA7K17,480,268
 EW5A16,178,220

Multi-Single Low Power
 3V8SS4,741,919
 ZW8T4,464,040
 TC7G4,435,743
 EC5AN4,273,488
 HZ1TL4,116,840

Multi-Two
 II2S23,172,420
 RT4F19,707,587
 OM77PA15,321,438
 HG7T14,661,278
 C6AGU11,998,756

Multi-Multi
 LZ9W31,925,696
 YT5A27,662,251
 ND7K16,255,494
 DP7D11,922,496
 NR6O8,839,000

Multi-Distributed
 PS2T23,811,570
 WW1X19,584,000
 IQ4FA12,589,255
 J42S6,572,714
 OO4O4,212,864

Rookie High Power
 DL4VDA1,651,650
 IU0QVB1,522,392
 9M2DX1,037,300
 YU3DKO977,676
 AK1MD900,592

Rookie Low Power
 9M2SAF920,885
 S55AL607,066
 SP8ALT511,430
 YC1LJT449,264
 4I1EBD438,703

Classic High Power

CQ3W (DF7EE)8,396,544
 UB8A (UA9BA)8,173,308
 VE3EJ7,703,030
 VC2W (VA2WA)7,633,944
 IR6T (IK6JNH)6,041,088

Rookie Low Power

P40A (KK9A)6,926,542
 WP3C (N2TTA)3,081,188
 UW8SM1,324,576
 PY2NY1,298,219
 IO8O (IK8UND)1,195,488

Tribander / Wires High Power

PJ4DX7,139,367
 PQ2M (PY2MNL)6,829,284
 CT3KN5,617,425
 T6A (S53R)4,357,685
 HZ7C (7Z1SJ)4,031,518

Tribander / Wires Low Power

HI3T3,025,269
 LZ7X1,722,688
 EF7W (EC7KW)1,684,125
 YL1ZF1,322,511
 HZ1BW1,208,070

UNITED STATES

Single Op All Band High Power
 AC1U (N1UR)8,616,972
 KV2K (K2NG)7,504,532
 KQ2M7,158,708
 AA3B6,895,328
 WU2X (N2QV)6,170,169

Single Op 28 MHz High Power
 KZ5MM (W5PR)137,025
 NA4W (K4WI)103,912
 K3OO17,490

Single Op 21 MHz High Power
 WK5T (N2IC)458,586
 N7RO325,104
 KR4Z (N4OX)315,000

Single Op 14 MHz High Power
 W7WA4,188,038

WI0WA (W0EWD)2,853,600
 WZ1R (N1RR)2,678,580

Single Op 7 MHz High Power
 W6AFA906,108
 KH7X/NZ7 (KH6ND)621,335
 WB0TEV534,664

Single Op 3.7 MHz High Power
 ND8DX905,175
 W3NO194,880
 NS1L (N6SS)188,955

Single Op 1.8 MHz High Power
 K1ZM58,797
 WN2O (N2GC)1,120

Single Op All Band Low Power
 AC0W1,086,696
 KQ1F (K1XM)793,872
 WK9U533,975
 N8GLS475,650
 N3AAA418,902

Single Op 21 MHz Low Power
 N8II52,904
 N6RM4,995
 KG9Y4,680

Single Op 14 MHz Low Power
 N9TGR455,499
 AI1TT (W1WBB)129,800
 W2ASC86,581

Single Op 7 MHz Low Power
 NT0EE (N0HJZ)722,982
 WN4AFP126,420
 WA3FAE79,800

Single Op 3.7 MHz Low Power
 NG0C35,154
 NY1E25,728

Single Op All Band QRP
 K3WW171,602
 W6QU (W8QZA)77,024
 ND0C50,887
 N4IJ44,196
 KV2U (K2YG)36,375

Single Op 21 MHz QRP
 AA1K15,912
 KG1E8,723
 KH6KG/W58,618



Bill, ACØW, participating in the popular Single-Op, All Band, Low Power category.

QSOs reveals that productivity was down on the low bands and up on the high bands, with significant improvements experienced on 15 meters. Also, while the Solar Flux Index was hovering in the mid-70s, propagation seemed to have benefitted Asia and South America on 15 meters and South America on 10 meters.

Single Operator Results Deep Dive

A study of Single Operator preferences provides food for thought in understanding contest outcomes and planning for next year. Consider *Table 3*, which suggests a relationship between power level and operating time; Single Operator (SO) High Power (HP) participants operated longer than their Low Power (LP) or QRP counterparts. The SO All Band (AB) Low Power (LP) category was the most popular choice, representing 40% and 43% of the logs sub-

Single Op 14 MHz QRP	
W2VRK	12,480
N7SVI	2,940

Single Op 7 MHz QRP	
W4DWS	23,435

Multi-Single High Power	
WU3A	6,369,378
NV9L	4,997,160
NX6T	2,809,404
NA4DA	2,615,625
WO4D	2,582,668

Multi-Single Low Power	
NM1C	618,510
NG1R	618,411
N8YXR	430,500
KT3T	101,920
W1JSR	69,984

Multi-Two	
NI4W	9,146,604
NJ6G	6,809,840
AA4VT	5,606,482
KT7E	4,259,178
KW7Y	4,150,380

Multi-Multi	
ND7K	16,255,494
NR6O	8,839,000
N1SOH	355,552
W3GH	162,069
NE3F	161,397

Multi-Distributed	
WW1X	19,584,000
KZ1W	2,624,519
KG5VK	650,364
WU5K	613,600

Rookie High Power	
AK1MD	900,592
W9KEY	476,898
AC3LZ	341,460
N1KWG	134,232
AA5H	97,152

Rookie Low Power	
W2ASD	207,244
W2ASC	114,608
KD2PTX	103,680
KE8LXN	95,040
K8NW	67,192

Classic High Power	
KQ2M	5,675,115
WZ4F (K4AB)	2,966,742
KU1CW	1,809,077
W3KL	1,410,024
W6TK	1,347,749

Classic Low Power	
K5FUV	251,625
NG1M	235,092
N9TF	231,231
N7ZZ	206,592
WA3LXD	177,017

Tribander / Wires High Power	
N3QE	3,129,243
K2SSS	2,237,697
WR2G	2,047,767
NF4J	1,977,696
KD5JRY	1,933,295

Tribander / Wires Low Power	
N8GLS	475,650
N3AAA	418,902
KBØV	345,462
WZ8T	329,130
KI5MM	204,610

EUROPE

Single Op All Band High Power	
IR4M (IK4MGP)	14,071,250
UW2M (URØMC)	12,892,374
LY4A	12,753,334
ES9C (ES7GM)	11,874,160
CR6K (CT1CJJ)	11,543,592

Single Op 28 MHz High Power	
II9L	51,975
IWØHBY	37,740
LZ8W (LZ2HM)	33,880

Single Op 21 MHz High Power	
IB9T (IT9BLB)	1,359,131
UD4F	1,267,022
S53MM	573,750

Single Op 14 MHz High Power	
S55OO	6,834,681
S5ØK	6,648,830
IB8A	5,567,680

Single Op 7 MHz High Power	
IO4X (IT9RGY)	11,481,822
CR6T	10,030,726
IB9A (IT9RBW)	8,496,284

Single Op 3.7 MHz High Power	
9A88A (9A1UN)	3,001,440
HG5A (HA5IW)	2,928,000
9A5ØY (9A3LG)	2,914,89

Single Op 1.8 MHz High Power	
HGØR (HAØNAR)	486,948
SN7D (SQ7D)	456,548
S56X	380,250

Single Op All Band Low Power	
LY4L	3,953,191
TM3Z (F4DSK)	3,229,248
EB7A	3,213,102
SQ6H (SQ6PLH)	2,400,570
PA9M	1,873,808

Single Op 28 MHz Low Power	
IT9ACN	24,272
EA4AA	11,718
IZ8CCW	7,056

Single Op 21 MHz Low Power	
IR9K (IT9WDC)	785,844
LZ9V	201,721
LZ6E (LZ1GU)	143,412

Single Op 14 MHz Low Power	
IF9A (IT9ATF)	1,436,796
LX7I (F4HWS)	1,217,091
UT3EV	831,444

Single Op 7 MHz Low Power	
OL9R (OK6RA)	2,131,862
RC7KY	1,865,985
UR6EA	855,142

Single Op 3.7 MHz Low Power	
PBØOT (PA2TMS)	1,335,515
E74R	764,856
OK1AY	700,375

Single Op 1.8 MHz Low Power	
HA8BE	292,752
OK6Y (OK2PTZ)	291,368
PC3T	219,741

Single Op All Band QRP	
LY9A	915,607
ES6RW	692,040
LZ1DM	606,300

E74Y	494,760
DL8LR	417,240

Single Op 28 MHz QRP	
S59GS	1,152

Single Op 21 MHz QRP	
SY1AEA	9,765
HA3HX	6,026
OK1LV	4,120

Single Op 14 MHz QRP	
EA5HJV	738,290
LY2OU	138,684
YU1NR	73,485

Single Op 7 MHz QRP	
IZ1ANK	197,160
S52CQ	66,898
SN5L	62,805

Single Op 3.7 MHz QRP	
SQ8MFB	57,186
YU3LAX	47,996
DL8RB	10,050

Single Op 1.8 MHz QRP	
DP5A	53,144
LY4T	33,082
HA1TI	24,696

Multi-Single High Power	
RL3A	21,951,100
E7DX	19,082,232
UA7K	17,480,268
EW5A	16,178,220
OK5Z	13,132,716

Multi-Single Low Power	
EC5AN	4,273,488
E7CW	2,594,439
OE2S	2,423,238
S57PKT	1,987,008
UW7W	1,483,936

Multi-Two	
II2S	23,172,420
RT4F	19,707,587
OM77PA	15,321,438
HG7T	14,661,278
RA5G	10,054,730

Multi-Multi	
LZ9W	31,925,696
YT5A	27,662,251
DP7D	11,922,496

LY2ZO	3,642,904
IQ2XI	237,639

Multi-Distributed	
IQ4FA	12,589,255
J42S	6,572,714
OO4O	4,212,864
OH2A	3,976,132
EE5T	3,753,420

Rookie High Power	
DL4VDA	1,651,650
IUØØVB	1,522,392
YU3DKO	977,676
LB5GI	758,952
IX1HPN	511,632

Rookie Low Power	
S55AL	607,066
SP8ALT	511,430
LY5GT	347,464
9A3LED	345,884
IU1MRG	238,539

Classic High Power	
IR6T (IK6JNH)	6,041,088
DQ2C	4,413,288
YL6W (YL2GD)	3,459,780
EA4KD	2,761,583
HA5JI	2,716,728

Classic Low Power	
UW8SM	1,324,576
IO8O (IK8UND)	1,195,488
DK5DQ	971,290
YO7SR	967,232
UX2MF	889,515

Tribander / Wires High Power	
EA3CI	3,705,300
IO6A	3,395,980
LZ3ZZ	3,312,798
IK3UNA	2,976,244
YQ6A (YO6BHN)	2,951,291

Tribander / Wires Low Power	
LZ7X	1,722,688
EF7W (EC7KW)	1,684,125
YL1ZF	1,322,511
DL1MHJ	889,133
Z32ID	794,955



Marina, LU1VYL, was one of 328 Rookie entrants.

mitted from Europe and North America, respectively. Single Band (SB) entries tended to have slightly higher score reductions as compared to AB entries. The data also indicate that North American operators are the least likely to participate in SB categories.

Figure 1 provides a histogram of operating times for SO AB participants. There are inflection points evident at 12 and 24 hours; 60% of the participants operated 12 hours or less, 30% operated 13 to 24 hours, and 10% operated more than 25 hours. There were 75 intrepid SO AB operators who went the full distance.

The three SO AB power categories were each won decisively. TI7W (N3KS) leveraged 40 meters to power his way to the top of the HP list. P4ØA (KK9A) put together his winning LP effort at the last moment after having to scrap his plans to operate from Bonaire. He reported thrilling rates on day 1 of the contest, which also happened to be his birthday. LY9A's QRP effort provided this WRTC 2018 winner another opportunity to demonstrate his operating skills, including the generation of a log with only a 2% score reduction after checking.

The prize for the "most improved band" goes to 15 meters, where scores were up dramatically from 2020 as evident from UN4L's winning 15-meter QRP score that was an order of magnitude greater than the top 2020 result. Log accuracy is a discriminator that can determine final rankings. This was the case in the battle between countrymen

S5ØK and S550O for the 20-meter HP honors; S550O got the win thanks to a smaller point reduction. Intelligence gleaned from the online scoreboard may have been the enabler in the narrow victory by 9A88A (9A1UN), over HG5A (HA5IW) and 9A5ØY (9A3LG) in the 80-meter HP category. Finally, there were eight SO SB stalwarts who operated the full 36 hours.

The overlay categories saw excellent participation levels again in 2021 as summarized in Table 4. The Classic Overlay was introduced in the CQWW WPX contests in 2020 and permitted 36 hours of operation. The operating period was shortened to 24 hours for 2021 which likely contributed to the increased utilization of this overlay as compared to 2020. There is also some great news —

Category	Continent							Average per Entry	
	AF	AS	EU	NA	OC	SA	All	Op Time (Hours)	Score Reduction
Single Op High Power Entries									
All Band	12	156	679	676	69	55	1,647	14	9%
Single Band	8	111	371	107	54	65	716	12	10%
Single Op Low Power Entries									
All Band	17	244	1,343	822	170	124	2,720	11	11%
Single Band	15	207	537	181	268	199	1,407	9	12%
QRP Entries									
All Band	0	15	68	22	11	4	120	10	8%
Single Band	1	31	75	17	15	9	148	7	15%

Table 3. Single-Operator participants by continent

2021 CQWW WPX SSB PLAQUE WINNERS AND DONORS

SINGLE OPERATOR ALL BAND

WORLD - High Power: Tom Georgens, W2SC Plaque. Won by: **TI7W** operated by Kam Sirageldin, N3KS
WORLD - Low Power: Caribbean Contesting Consortium Plaque. Won by: **P4ØA** operated by John Bayne, KK9A
WORLD - QRP: Phil Krichbaum, NØKE Plaque. Won by: **Gediminas Lucinskas, LY9A**

USA - High Power: Alabama Contest Group Plaque. Won by: **AC1U** operated by Ed Sawyer, N1UR
USA - Low Power: Terry Zivney, N4TZ Plaque. Won by: **Bill Lippert, ACØWW**
USA - QRP: Doug Zwiebel, KR2Q Plaque. Won by: **Charles D Fulp Jr, K3WW**
USA Zone 3 - High Power: Adrian Ciuperca, KO8SCA Plaque. Won by: **KK6P** operated by Paul F Merrill, W7IV
USA Zone 3 - Low Power: Buz Reeves, K2GL Memorial by Willamette Valley DX Club Plaque.
 Won by: **David Cherba, WZ8T**
USA Zone 4 - High Power: Jerry Rosalius, WB9Z and Val Hotzfeld, NV9L Plaque. Won by: **Cedrick Johnson, WT2P**
USA Zone 4 - Low Power: Jerry Rosalius, WB9Z and Val Hotzfeld, NV9L Plaque. Won by: **Jason Leslie, WK9U****
USA Zone 5 - High Power: Charles Wooten, NF4A Plaque. Won by: **KV2K** operated by **Noah Gottfried, K2NG****

EUROPE - High Power: Dave Siddall, K3ZJ Plaque. Won by: **IR4M** operated by Fulvio Tumidei, IK4MGP
EUROPE - Low Power: Richard DiDonna, NN3W Plaque. Won by: **Mindaugas Jukna, LY4L**
EUROPE - QRP: Walter Skudlarek, DJ6QT Memorial by Rhein-Ruhr DX Association Plaque.
 Won by: **Rein Kolk, ES6RW****

AFRICA: Atilano Oms, PY5EG Plaque. Won by: **CQ3W** operated by Helmut Mueller, DF7EE
ASIA: Chris Terkla, N1XS Plaque. Won by: **P3X** operated by Sergey Rebrov, 5B4AMM
NORTH AMERICA* - High Power: Martin Huml, OL5Y Plaque. Won by: **Laurent Bellay, FM5BH****
NORTH AMERICA* - Low Power: Tim Shoppa, N3QE Plaque. Won by: **WP3C** operated by Yuri Rakushchynets, N2TTA
NORTH AMERICA* - QRP: Phil Krichbaum, NØKE Plaque. Won by: **Jose Osuba, NP3T**
SOUTH AMERICA: Andrew Faber, AE6Y Plaque. Won by: **Steve Teleniuslowe, PJ4DX****
SOUTHERN CONE (CE CX LU) - Low Power: LU Contest Group Plaque. Won by: **Anibal Dos Ramos, XQ5ME**
OCEANIA - High Power: Sid Caesar, NH7C Plaque. Won by: **ZM4T** operated by Holger Hannemann, ZL3IO
CANADA - High Power: Saskatchewan Contest Club Plaque. Won by: **VB3E** operated by Ron Vander Kraats, VE3AT
CANADA - Low Power: Paul Cassel, VE3SY Memorial by Contest Club Ontario Plaque.
 Won by: **VX2Z** operated by **Pierre Loranger, VA2CZ**
JAPAN: Hamad Alnusif, 9K2HN Plaque. Won by: **Masa Okano, JH4UYB**
ASEAN (3W 9M 9V DU HS V85 XU XW XZ YB) - High Power: Agus Wibisono, YB2TX Plaque.
 Won by: **Yohanes Budhiono, YB2DX**
INDONESIA - Any Single-Operator: Anda Yudas, YB6HAI Plaque. Won by: **Tom Rachmad Syarifudin, YB1DNF****

SINGLE OPERATOR, SINGLE BAND

WORLD - 28 MHz: Mamuka Kordzakhia, 4L2M Plaque. Won by: **Marcelo Eges, CX2DK**
WORLD - 28 MHz Low Power: Six Stars Contest Station LS1D Plaque. Won by: **Eduardo Almeida, PU5FJR**
WORLD - 21 MHz: Stuart Santelmann, KC1F Memorial by W3UA/RA3AA Plaque.
 Won by: **PTSJ** operated by **Sergio Almeida, PP5JR**
WORLD - 14 MHz: Lynn Schriener, W5FO Memorial by N5RZ Plaque. Won by: **Goran Andric, S550O**
WORLD - 7 MHz: Vince Weal, K4JC Plaque. Won by: **IO4X** operated by Gabry Iuliani, IT9RGY
WORLD - 1.8 MHz: Dmitri Gorshkov, UA2FB Plaque. Won by: **HGØR** operated by **Dr Laszlo Radocz, HAØNAR**
USA - 28 MHz: Maurice Schietecatte, N4LZ Plaque. Won by: **KZ5MM** operated by Chuck Dietz, W5PR
USA - 21 MHz: Maurice Schietecatte, N4LZ Plaque. Won by: **WK5T** operated by Steve London, N2IC
USA - 14 MHz: Charles Wooten, NF4A Plaque. Won by: **Dan Handa, W7WA**
USA - 7 MHz: Yankee Clipper Contest Club Plaque. Won by: **Alexander Sherman, W6AFA**
USA - 3.5 MHz: Bernie Welch, W8IMZ Memorial by W3ASW Plaque. Won by: **Karl Brandt, ND8DX**

Category	Continent						All	Average per Entry	
	AF	AS	EU	NA	OC	SA		Op Time (Hours)	Score Reduction
High Power Overlay Entries									
TB-Wires	2	35	144	120	18	22	341	15	10%
Classic	4	27	120	65	10	15	241	14	8%
Rookie	0	5	15	11	3	0	34	16	14%
Low Power Overlay Entries (Includes QRP)									
TB-Wires	2	43	230	79	27	31	412	12	9%
Classic	5	65	301	113	41	28	553	10	11%
Rookie	1	22	119	62	71	19	294	10	15%

Table 4. Overlay categories participation summary

Category	Continent						All	Average per Entry	
	AF	AS	EU	NA	OC	SA		Op Time (Hours)	Score Reduction
Multi Single HP	1	21	47	26	6	6	107	28	11%
Multi Single LP	1	19	39	12	15	4	90	21	11%
Multi Two	1	11	15	14	2	1	44	31	11%
Multi Multi	0	2	6	8	2	0	18	27	11%
Multi Distributed	0	2	17	4	1	4	28	30	12%

Table 5. Multi-Operator participation summary

EUROPE - 28 MHz: Chuck Dietz, W5PR Plaque. Won by: **II9L** operated by Giovanni Alfano, IT9BUN
 EUROPE - 21 MHz: Rafal Dunal, SQ9CNN Plaque. Won by: **IB9T** operated by Giuseppe La Parola, IT9BLB
 EUROPE - 14 MHz: SJ2W Contest Team Plaque. Won by: **Marko Munih, S50K****
 EUROPE - 3.5 MHz: Ranko Boca, 4O3A Plaque. Won by: **HG5A** operated by Laszlo Simon, HA5IW**
 EUROPE - 1.8 MHz: Debrecen University Radio Club, HG0UD Plaque.
 Won by: **SN7D** operated by Mateusz Pigon, SQ7D**

OVERLAY CATEGORIES

WORLD - Tribander / Single-Element: Nate Moreschi, N4YDU Plaque. Won by: **Steve Teleniuslowe, PJ4DX**
 USA - Tribander / Single-Element: Tom Francis, W1TEF Memorial by Swamp Fox Contest Group Plaque.
 Won by: **Tim Shoppa, N3QE**
 USA - Tribander / Single-Element Low Power: Alex M Jozsa, KG1E Plaque. Won by: **Bradford J Williams, N8GLS**
 WORLD - Rookie: Val Edwards, W8KIC Memorial by K3LR Plaque. Won by: **Vera Doetsch, DL4VDA**
 USA - Rookie: Bud Trench, AA3B Plaque. Won by: **Alexander Kopp, AK1MD**

MULTI-OPERATOR, SINGLE-TRANSMITTER

WORLD: Latvian Contest Club Plaque. Won by: **RL3A** operated by R0AI, R3DCB, R3DCX, RA9USU, RL3FT, RW4WR, RX3APM
 WORLD - Low Power: Mike Goode, N9NS Memorial by Hoosier DX and Contest Club Plaque.
 Won by: **3V8SS** operated by KF5EYY, 3V1B
 USA: Steve Bolia, N8BJQ Plaque. Won by: **WU3A** operated by R4AS, RQ4A, W3UA, NU3C
 USA - Low Power: Matt Tatro, NM1C Plaque. Won by: **NM1C** operated by NM1C, KB1YJI
 EUROPE: Tonno Vahk, ES5TV Plaque. Won by: **E7DX** operated by E70T, E74A, E77DX, E77E, E77EA**
 NORTH AMERICA*: Jerry Rosalius, WB9Z and Val Hotzfeld, NV9L Plaque. Won by: **T11T** operated by TI2CC, TI2MOT, TI2CDA, TI2VVV, TI3RCS
 ASEAN (3W 9M 9V DU HS V85 XU XW XZ YB): Champ C. Muangamphun E21EJC Plaque. Won by: **7A1A** operated by YB1AR, YB1ACN, YB1AM, YB1JYL, YB1EGP, YB1PEF, YB1CIR, YB4GBN, YE1AR, YC0RXA

MULTI-OPERATOR, TWO-TRANSMITTER

WORLD: Ken Adams, K5KA Memorial Plaque. Won by: **II2S** operated by IK2QEI, IZ2KXC, IU2IBU, IK2SGC, IZ2FOS, IK2TDM, IK2UJS
 USA: Florida Contest Group Plaque. Won by: **NI4W** operated by N4UU, K1MM
 EUROPE: Rich Strand, KL7RA Memorial Plaque. Won by: **RT4F** operated by RK4FD, RK4FM, RK4FU, RK4FW, R4FO, UA4FER**

MULTI-OPERATOR, MULTI-TRANSMITTER

WORLD: Sid Caesar, NH7C Plaque. Won by: **LZ9W** operated by LZ1ZD, LZ2CJ, LZ2UU, LZ2HQ, LZ1FG, LZ1PM, LZ1PJ, LZ1VS, LZ1KU, LZ6DX, LZ2YO, LZ4AE, LZ1ZX, LZ3UP
 USA: Dale Hoppe, K6UA Memorial Plaque. Won by: **ND7K** operated by N6WIN, W4IX, N6MJ, W9KKN, KL9A, NN1C, K6JO
 EUROPE: Rick Dougherty, NQ4I Plaque. Won by: **YT5A** operated by YT1AD, YU1AU, YU1KX, YU2FG, YU6DX, YU9DX, YU1BV, YU1YV, YT2T**

MULTI-OPERATOR, DISTRIBUTED

WORLD: Atilano Orms, PY5EG Plaque. Won by: **PS2T** operated by PY2BK, PY2DY, PY2IG, PY2LED, PY2NDX, PY2PT, PY2XV, PY2YU, PY2ZEA

CONTEST EXPEDITION

WORLD - Contest Expedition: Gail M. Sheehan, K2RED Plaque. Won by: **P40A** operated by John Bayne, KK9A

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

**Denotes awarded to runner-up in category

the number of Rookie entries was up by 5% as compared to 2020 (328 vs. 310).

PJ4DX had difficulty choosing between the Classic and TB-Wires overlays. He operated just under 24 hours but made the fortunate choice of selecting the Tribander / Wires overlay where it would be later determined that he was the winner. N3QE continued his U.S. Tribander / Wires HP overlay winning streak for the third consecutive year. HI3T gave his brand-new rig a thorough test in the pileups and captured the top spot in the Tribander / Wires LP overlay. CQ3W (DF7EE) bounced back from nearby lightning strikes and power outages to defeat Murphy and squeeze by UB8A (UA9BA) to win the Classic HP overlay. P40A (KK9A) was one of a handful of participants who toughed out COVID-19 travel constraints to activate a DX location; his efforts were rewarded with a Classic LP overlay win. The 2021 Rookie class was impressive; DL4VDA, YU3DKO, and IU0OVV each logged over 1,100 QSOs and DL4VDA, IU0OVV, and 9M2TDX each scored over 1 million points. The Rookie overlay winners were DL4VDA (HP) and 9M2SAF (LP). The top U.S. Rookies were AK1MD (HP) and W2ASD (LP), which are calls already familiar to many contesters.

“Conditions were not the best, but we enjoyed being together again...” - Valeri, LZ2CJ, on behalf of the LZ9W Multi-Multi team

Multi-Op: Anything but Typical

Multi-Op activity partially recovered in 2021 as compared to 2020 but remained below historic norms. For example, 378 Multi-Ops logs were submitted in 2019, as compared to just 287 in 2021. Table 5 provides an overview of 2021 Multi-Op participation by category and continent.

Congratulations to the RL3A gang on their second consecutive win in the Multi-Op Single Transmitter (Multi-Single) HP Category. The Multi-Single LP competition was fierce between players on four continents; in the end the 3V8SS squad won because of their QSO point production. The II2S cadre's first entry in the Multi-Op Two Transmitter category produced a victory; this team knew how to find prefixes. The Multi-Op Unlimited Transmitter (Multi-Multi) category featured the return of the LZ9W powerhouse and the first ever Multi-Multi effort by YT5A. Despite the



On the Cover -

"Hey Ranko, what's up for the (IARU) contest? The world's kind of shut down. Can we come out and operate your station?" That was Jon Kimball, KL2A, in Alaska, talking last spring to Ranko Boca, 4O3A, halfway around the world in Montenegro. Where else but in ham radio could this conversation take place? And even moreso, where else but in ham radio would the answer be yes?

Jon was actually kind of the middleman here, telling *CQ*, "I didn't come for the contest. I came because I'm friends with Ranko. Rich (DiDonna, NN3W) did the contesting. I hung out with Ranko."

Ranko's name and call may be familiar to you, not only as a world-class contestester (with a world-class contest station overlooking the Adriatic Sea) but also as designer and manufacturer of the 4O3A "Genius" line of amplifiers and other station accessories. Jon noted that Ranko "has provided a lot of great jobs in his community. He really is a genius. We got a chance to see all that up close and personal." Ranko's products, adds Jon, are great for his business but he is also "really interested in furthering the hobby and giving back."

Rich, who's been friends with Jon over the radio since high school, noted that he had a fantastic week of operating and hanging out in a part of the world with very few Americans. His goal, as he and Jon explain to N3QE in this month's Contesting column (p. 82), was to get a feel for summertime propagation in the Mediterranean in preparation for the 2023 World Radiosport Team Championship in Italy (which is visible from Ranko's station).

In the cover photo, Jon and Rich (2nd and 3rd from left) are joined on a hilltop overlooking Boka Korskva Bay and the city of Herceg Novi (New Castle), as well as 4O3A's station on the hill in the background, by (L-R) Marko Tomasevic, 4O9TTT, described by Jon as Ranko's right-hand guy at work and surrogate son; Ranko Boca, 4O3A, and Ranko's real son, Dragisa Boca, 4O9ITT. (Cover photo by Branko Cubovic)

LZ9W victory, the operators at YT5A were satisfied by their first outing and will be back.

The Multi-Transmitter Distributed category was introduced this year and the excitement by its participants was universal. This category was also a technology driver, stimulating several remote operating and networking innovations. The top two logs by PS2T and WW1X contained nearly identical numbers of QSOs and multipliers. While the PS2T team prevailed due to their QSO point production, it is likely that the stage

has been set for thrilling rivalries in future years. Further, it is noteworthy that the WW1X 26-person team included members from nine countries and 10 operators under age 21.

Trouble Tickets

Most logs were received on time and processed without issue, which is greatly appreciated by the CQWW WPX Committee. The adherence to rules and exhibition of sportsmanship were also prevalent. Our disciplinary actions were limited and included disqualifications or



Karl, ND8DX, was #1 in the U.S. in the Single Op High Power, 80 meter category.



The team at the E2A Multi-Operator Two Transmitter station.



WU3A Multi-Single High Power melting the snow in New Hampshire. Operators included: R4AS, W3UA, RQ4A, and NU3C (not pictured).



TC3A Turkish Contest Team included: TA3E, TA3EJ, TA3ST, TA3LHH, TA4PR, TA4VA, TA4OA

warnings for self-spotting, excessive power, out-of-band operations, and failure to adhere to local regulations. Also, Classic Overlay logs were inspected for use of QSO alerting systems (Assistance) and / or a second radio, resulting in reclassification when warranted. The CQWW WPX Committee would like to acknowledge our access to resources and techniques available from the CQWW DX Contest Committee in the resolution of CQWW WPX disciplinary matters. Finally, participants are reminded that running stations must not make more than three contacts without sending their callsigns.

Final Thoughts

It was rewarding to see the second consecutive year of record participation levels in CQWW WPX SSB. Even better

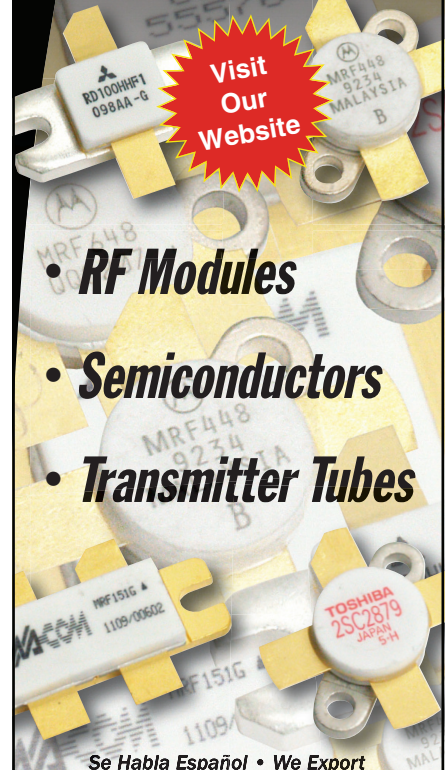
times are expected as Solar Cycle 25 kicks in, COVID-19 impacts on travel and multi-op efforts are abated, and the new rules gain further acceptance. The excitement by participants in the shortened Classic Overlay and new Multi-Transmitter Distributed category was also particularly noteworthy.

In closing, I want to express my heartfelt thanks to all the volunteers who contributed to success of CQWW WPX SSB 2021, including EA4KD, ES5TV, F6BEE, HA1AG, IK2QEI, JH5GHM, K1AR, K1DG, K1EA, K3WW, K5ZD, KR2Q, LA6VQ, LU5DX, N5KO, N8BJQ, OH6LI, PA3AAV, S5ØA, S5ØXX, WØYK, WZ7I, and YO3JR. Their commitment to administering the contest with consistency, integrity, timeliness, and thoroughness is eye-watering.

(Scores on page 94)

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