# Results of the 2019 CQWW WPX SSB Contest

# BY TERRY ZIVNEY,\* N4TZ

o sunspots? A good contest makes its own propagation. Over 5,500 logs were submitted this year, with more than 4,000 of them from outside the U.S. Still, it was easier to work some places than others and a lot of stateside stations noted the absence of Japanese stations in their logs. Yet, the number of logs received from Japan trailed only the U.S. and Germany. And, although you couldn't tell it from my log, 217 YB hams submitted their logs for scrutiny.

Not only were more logs submitted, but the median log had more QSOs: 131 versus 125 last year and 120 the previous year. In addition, 403 logs had at least 1,000 contacts after log checking, up from 387 last year. Who needs those stinking sunspots?

You can find out how you, and your competitors, did on page 99 or at <www.cqwpx.com>, where the full line scores of all the categories will be posted, along with a searchable database of scores for all past CQ WPX contests. You will also find public logs from all the competitors to help you identify missed opportunities.

# Single-Operator All Band

Dimitri, RA3CO, operated CN2CO to beat PJ4K (Rich, N6KT, op) in the most prestigious category in contesting. The top six finishers came from six different continents. Talk about sharing the fun. K1LZ (K3JO, op) bested NN2DX (W2RE, op) in the U.S., while E7DX placed first in Europe.

# Single-Operator Single Band

The highest single band score was again on 40 meters, where all the intra-European QSOs count for 2 points each. ED5S (EA5SR, op) ran away with that category. S5ØK won the 20-meter plaque, while CV7S (CX7SS) outpaced from the crowd on 15 meters. SP8R (SP7VC, op) beat last year's 80-meter winner, UX2X (UT2XQ, op). VY2ZM seemed to be competing with only himself on the top band (160 meters). That was a good strategy, enabling him to set a new North American record.

# Single-Operator Low Power

Single-operator unassisted low power all band remains the most popular category by a huge margin. John (KK9A) repeated as champion, operating as PJ4R. NR4AA (N9NB, op) talked his mountaintop station to second place in the world, beating defending champ KS9K (N4TZ, op), operating from the Midwest flatlands, for U.S. honors. If you ran low power, then South America was the only place to be on 10 and 15, while Europeans pretty much had their way on the remaining bands.

# Single-Operator Assisted

Just over one-third of the single operators reported the use of assistance during the contest. EF9Z (EA9LZ, op) was



Photo A. It doesn't get more basic than Stefano's setup at IZ3NVR/P. His battery-powered QRP station was among more than 200 entries operating with 5 watts or less.

world high power assisted champ. The top three U.S. assisted scores came from the West Coast, with KK6P beating NU6G and KU1CW. P44W (W2GD, op) had the top low power assisted score in the world, while NG1R (W1QK, op) topped those in the U.S.

A lot of activity took place in the assisted single band categories as well. As in the unassisted categories, South America was the place to be on the high bands and Europe on the low bands. SN3A (SP3GEM, op) used 40 meters to post the largest assisted single band score.

# Single-Operator QRP

There were 226 QRP (5 watts or less) logs received. OK2FD beat out ES6RW for world-high QRP all bands. WK9U was the top U.S. finisher. RT4W was the top assisted QRP all band scorer. QRP appeals to the minimalist operator. See the battery-powered portable station of IZ3NVR/P (*Photo A*).

# **Overlay Categories**

The Rookie overlay category was established to encourage recently licensed hams to dabble in the contest experience. This year, 280 entries checked this overlay category, an increase of 18 over last year. VO1IDX operated all band high power assisted to win the World Rookie plaque (*see VO1IDX sidebar*). Chris was the only Rookie to top 1 million points this year. Jack, WZ1Y, led the U.S. rookies (*see WZ1Y sidebar*).

The Tribander / Single-Element overlay category was intended to provide a measuring tool for average stations. Still, outstanding operators with good locations for their

email: n4tz@cqwpx.com

# 2019 CQWW WPX SSB TOP SCORES

# WORLD

Single Op All Band	High Power
CN2CO (RA3CO)	26,749,056
PJ4K (N6KT)	
4LØA (UB7K)	15,483,480
VB3E (VE3AT)	15,005,133
KH7XS (K4XS)	14,787,585

Single Op 28 MHz Higt	n Power
ZW5B (PY5CC)	224,236
LW7DX	170,500

LW7DX170,5	500
KZ5MM (W5PR)37,5	536

Single Op 21 MHz Hi	gh Power
CV7S (CX7SS)	2,762,980
ZS6TVB	316,932
9M8YY (JR3WXA)	188,859

Single Op 14 MHz	High Power
S5ØK	5,204,000
OE6Z (OE6MBG)	4,894,373
0K7W	3,845,961
Single Op 7 MHz	High Power
Single Op 7 MHz ED5S (EA5SR)	3
	7,227,081

Single Op 3.7 MHz Hi	igh Power
SP8R (SP7VC)	2,597,652
UX2X (UT2XQ)	2,261,250
	1 756 676

Single Op 1.8 MHz H	ligh Power
VY2ZM	1,144,650
4L2M	
LY2PAD	61,533

Single	Op .	AII	Band	Low	Power

PJ4R (KK9A)	6,754,440
NR4AA (N9NB)	2,630,961
S53MM	2,342,010
LY4L	2,285,865
US2YW	2,242,023

Single Op 28 MHz Low	Power
PU2UAF	45,593
CE7VPQ	29,260
CX8DS	22.413

Single Op 21 MHz Lo	ow Power
PY2UD	846,906
ZV2C (PY2CX)	707,808
НКЗТК	567,528

Single Op	14 MHz Low Power
EE8K (EA8AV)	1,398,216

PY2NY	1,209,040
IW1FRU	

Single	Op	7	MHz	Low	P	owe	r
DC7KV					1	061	2

LY5Q	 906,704
TA7MHZ	 551,060

Single Op 3.7 MHz Low P	ower
PGØØT (PA2TMS)1,1	30,875
CQ3J (CT3MD)8	47,280
4Z5UN7	57,344

Single Op 1.8 MHz Low Power		
YT8A179	9,456	
E74R93	3,060	
0K1J0K	).176	

#### Single Op All Band High Power Assisted

EF9Z (EA9LZ)	16,170,196
ZX5J (PP5JR)	14,582,585
EB8AH (EA8RM)	14,115,568
104X (IT9RGY)	12,686,548
LY29A (LY4A)	11,680,650

#### Single Op 28 MHz High Power Accipted

Assisten			
PY2TMV			
WN1GIV (N4BP)			
LW3EK	7,068		

16 • CQ • September 2019

PY2KJ		LY5G
PY8WW		MØHMJ
		Single Op
Single On 1	4 MHz High Power	LZ1DM
	Assisted	LY2NK
	6,274,105	L12101(
	4,140,436	Single On 2
		Single Op 3
		OK6K (OK5IM)
Single On 7	7 MHz High Power	0
	Assisted	Single Op 1
	)8,049,132	HA1TI
	4,508,740	EU1AA
	4,421,898	W2MF
NA91	4,421,090	
0	7.000 00 0 0	Single Op All Ba
	7 MHz High Power	RT4W
	Assisted	RA5AD (R3AP)
	4,339,440	YU1LM/QRP
	2,454,834	9A40P
S51YI	1,859,840	MM3AWD
	.8 MHz High Power	Single Op 28 M
	Assisted	3G30 (CE30P)
	627,944	
	214,816	Single Op 21 M
SP3GTS		LZ24M (LZ3DX)
		C06LE
Single Op A	ll Band Low Power	
A	Assisted	Single Op 14 M
P44W (W2GD) .	4,407,080	HI8JSG
IQ8SN (IZ8FWN	)	IZ3NVR
TM3Z (F4DSK) .		YU3VIP
RL6M	1,920,293	10311
Y03APJ	1,760,243	0
		Single Op 7 MH
Single Op 2	8 MHz Low Power	F4BKV
• .		17811

	Assisted	
NV C		67 105

Single Op 21 MHz High Power

Assisted

PY2KJ

PV2CP

LU1DX	.67,195
9Z4Y	.49,560
PP5KC	.20.680

#### Single Op 21 MHz Low Power Assisted

201 238

1 1201	
YBØJS	
YFØTUR	

#### Single Op 14 MHz Low Power Assisted

CN4P (CN8NK) ..... .2,687,364 UR3GÙ.. .....1,349,365 UR2Y (USØYW) .....763,040

#### Single Op 7 MHz Low Power

Assisted OK6T (OK1WCF) .....1,115,604 IZ4REF ..... 1 051 830 

#### Single Op 3.7 MHz Low Power Assisted

OL9R .1.129.968 SP4DZT. ...542.660 UY7C. ..490.000

# Single Op 1.8 MHz Low Power

Assisted			
HGØR (HAØNAR)	.370,272		
LY4ZZ (LY2BMX)	.154,287		
OK6Y (OK2PTZ)	82,260		

#### Single Op All Band QRP

0K2FD	
ES6RW	
HG6C (HA6IAM)	
UT5EOX	274,050
UR5FE0	258,352

## Single Op 28 MHz QRP

LV4V (LU4VZ)	80
CA3GCA1,5	40

Single Op 21 MHz QRP		
JR1NKN	3,395	
LU7DUE	2,847	

Single Op 14 MHz QRP		
LY20U	118,560	
LY5G	94,367	
MØHMJ	77,660	

7 MHz QRP 

....154,940

	Single	Op 3.7 MHz QRP	
<b>OK6K</b> (	(OK5IM)	)142,92	2

Single Op 1.8 MHz QRP		
HA1TI		
EU1AA		
W2MF		

Single Op All Band QRP Assisted		
RT4W	211,888	
RA5AD (R3AP)	168,840	
YU1LM/QRP	167,577	
9A40P	165,312	
MM3AWD	117,249	

AHz QRP Assisted .....1,104

Single Op 21	MHz QRP Assisted
LZ24M (LZ3DX)	10,136
C06LE	7,742

Single Op 14 MHz QF	RP Assisted
HI8JSG	50,274
IZ3NVR	
YII3VIP	20 458

	Single Op 7 MHz QRP	P Assisted
F4	BKV	282,744
LΖ	8U	73,584
U٦	3EK	67,767

Single Op 3.7 MHz QRP Assisted 9A9J (9A7ZZ). .171,028 E740 144,333

Multi-Single	High Power
--------------	------------

P33W	.29,692,172
TM6M	.22,136,170
P4ØL	.21,965,832
PS2T	.16,954,000
UP2L	.16,833,999

Multi-Single Low Power			
ZW8T	3,015,482		
НІЗК	2,573,125		
ED9E	2,352,000		
BD7DT	1,653,733		
IR9K	1,629,920		

Multi-Two			
I19RE	27,584,865		
)M7ØKAP	25,557,933		
R6T	24,330,240		

11101	
K3LR	
II9P	

Ινιμιτι-Ινιμιτι			
CN3A	54,907,556		
D4C	47,748,204		
9A1A	32,819,200		
LZ9W	22,652,608		
PJ2T	17,391,897		

#### Rookie

Single Op All Band High Power			
V01IDX	1,493,064		
WZ1Y	453,120		
SQ3M			
W4BBT			
RU8T (R8TA)			

Single Op 14 MHz High Power ED3C (EA3IBV) .. ..667,926

.45,064

Single Op 7 MHz Hig	jh Power
W4IPC	223,652
SP7MII	45 064

Single Op 3.7 MHz High Power	
LY71A54,68	3

Single Op All Band Low Power			
E71AZ	608,328		
OM4IK	504,576		
R2ARR			
S55BA			
AA4LS	227 751		

Single Op 21 MHz Low	Power
PY2CP	201,238
YFØTUR	58,201
YY2WTF	33,128

Single Op 14 MHz Low	Power
EM9Q (UR9QQ)	60,888
YC8EJ	60,656
CS7APD	56,472

Single Op 7 MHz Low Power			
YU4TDX	184,847		
YL2LW	108,252		
IU5ICR	57,663		

		-	.,
Single	Op 3.7	MHz QRP	

DO1WHU.....

Tribander/Single Element Single Op All Band High Power		
EW5Z (EU1A)	7,304,638	
RJ4P	6,312,705	
PJ4DX	5,862,180	
ZZ2T (PY2MNL)	5,124,704	
RT9S	3,643,920	

Single Op 21	MHz High Power
_77D (LU6DC)	

4XØA (4	4X1VF)	 	.18,164
KM4HI.		 	.18.000
			,

Single Up 14 WHZ High Power		
/31VP (WBØTEV)	2,593,899	
R5AJ	1,443,924	
RU5TT		

# Single Op 7 MHz High Power

DL4RCE	
MM4D (GM4ATA)	534,447
LY2UU (LY2BUU)	490,044

Single Op 3.7 MHz H	igh Power
EU4E	1,147,770
MØMCV	519,170
DL6DH	373,464

Single Op 1.8 MHz Hi	gh Power
YT6K (YU7KW)	214,816
UX5IS	91,945
IKØXBX	69,255

#### Single Op All Band Low Power

4Z4AK	1,697,280
RZ3Z	1,428,306
S58WW	1,099,800
0E2S (0E2VEL)	1,089,491
EW1P	995,220

Single Op 21 MHz	Low Power
ZV2C (PY2CX)	
CETHIGE	120 186

#### On 14 MHz L

omgio op 14 miliz Low	100001
EE8K (EA8AV)	1,398,216
UR2Y (USØYW)	763,040
YV5GPA	674,137

Single Op 7 MHz	Low Power
IZ4REF	1,051,830
LY5Q	906,704
IW2BZY	

#### Single Op 3.7 MHz Low Power

DL9R	1,129,968
SQ6H (SQ6PLH)	118,035
M6BIR	

Single Op 1.8 MHz Low Power
YT8A179,456
HA1TI
E77EE22,000

# **UNITED STATES**

#### Single Op All Band High Power

K1LZ (K3J0)	13,216,527
NN2DX (W2RE)	11,625,520
NN3W	11,392,826
WA1Z	11,360,277
WU2X (N5DX)	10,526,812

Single Op 28 MHz Hig	h Power
KZ5MM (W5PR)	37,536
NA4W (K4WI)	13,080

Single Op 21 MHz High Power N7RQ .. ..34,592

Single Op 14 MHz	High Power
KJ4QHL	1,509,121
K8FF	115,872
K8LX	

#### Single Op 7 MHz High Power

NQ2F (KD2RD)	1,784,160
AG4W	1,368,918
W6AFA	909,720

Single Op 3.7	MHz High Power
ND8DX	1,361,504
W3BGN	
WIØWA (WØEWD)	)622,080

# Single Op 1.8 MHz High Power

WWZU (WZGC)	10,144
K2XA	17,475

# Single Op All Band Low Power

NR4AA (N9NB)	2,630,961
KS9K (N4TZ)	1,228,039
K8PGJ	
KQ1F (K1XM)	
KU2M	728.424

# Single Op 14 MHz Low Power

W2AW (N2GM)	639,580
N5JJ	335,989
KØEA	201,758

Single Op 7 MHz Low Power
NM2R151,194
WA2JQK77.190

Single Op 3.7 MHz Low Power

Single Op All Band High Power

Assisted

Single Op 28 MHz High Power

Assisted

Single Op 21 MHz High Power

Assisted

Single Op 14 MHz High Power

Assisted

Single Op 7 MHz High Power

Assisted

Visit Our Web Site

.64,815

..12,948

..6,780

.5,293,254

.4,419,260

4.130.200

.3.836.635

.3.400.950

...10,494

..18.000

.540.690

.330,368

.219,450

467,712

......27,169

KT3RR

AB1J.

K7DR.

KK6P

KU1CW.

KM4HI.....

KG1E.

NK3Y ...

WA3C

W8MJ.

N3QE

NJ6G (N7MH)

WN1GIV (N4BP) .....

W7RN (K5RC) ......

KC4WQ.

KB1W237,876	Single Op All Band Low Power
N1RR197,398	AA4LS
	N8EV105,265
Single Op 3.7 MHz High Power	KX4BI105,078
Assisted	K2CAB64,144
W3LL1,119,744 W3NO528,520	AC9T052,220 W3SPC52,216
K2LE	W33F0
N2LL01,030	Single On 14 MHz Low Dower
Single Op All Band Low Power	Single Op 14 MHz Low Power W2ASC29,792
Assisted	W2A3029,792
NG1R (W1QK)1,074,645	Single On 7 MHz Low Power
N2SQW853,678	Single Op 7 MHz Low Power KI5AXG5.148
W01N538,752	KIDAXG
N3HEE532,532	
WZ8T300,199	Tribander/Single Element
	Single Op All Band High Power
Single Op 14 MHz Low Power	N3QE
Assisted	NF4A (N4PN)3,023,163 N6AR2,440,270
AA4XA (HK1A)535,925	K4BAI1,820,594
N9TGR	KR4Z (N4OX)
WA5WFE61,875	1,750,015
Single On 7 Mile Law Damas	Single Op 21 MHz High Power
Single Op 7 MHz Low Power Assisted	KM4HI18,000
WA1FCN455,598	-,
NØAG	Single Op 14 MHz High Power
AA4NP	KG1E540,690
AA4NF	WD5K104.796
	Single Op 7 MHz High Power
Single Op 3.7 MHz Low Power	WTØDX90,640
Assisted	
N3SD33,390	Single Op 1.8 MHz High Power
K7XC21,978	WN20 (N2GC)18,144
Single Op All Band QRP	Single Op All Band Low Power
WK9U214,969	N2SQW
NDØC	NGØC
W6QU (W8QZA)94,772	K5FUV
N5TZH70,493	W01N538,752
W7YAQ	N3HEE532,532
Single Op 14 MHz QRP	Single Op 14 MHz Low Power
WE6EZ60,516	N5JJ
	W9ILY119,970
Single Op 1.8 MHz QRP	WE6EZ60,516
W2MF17,775	
	Single Op 7 MHz Low Power
Single Op All Band QRP Assisted	Single Op 7 MHz Low Power NM2R151,194
K2GMY24,472	
	NM2R151,194
K2GMY24,472 K8ZT13,986	NM2R151,194 KT3RR64,815 N90U34,100
K2GMY24,472 K8ZT13,986 Single Op 14 MHz QRP Assisted	NM2R
K2GMY24,472 K8ZT13,986	NM2R151,194 KT3RR64,815 N90U34,100
K2GMY	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power    AB1J
K2GMY	NM2R
K2GMY	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power    AB1J
K2GMY	NM2R
K2GMY	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power    AB1J
K2GMY	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power
K2GMY	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ESTV    11,085,280      UW2M (URØMC)    10,531,599
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ESTV    11,085,280      UW2M (URØMC)    10,531,599      EC2DX    9,593,768
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ESTV    11,085,280      UW2M (URØMC)    10,531,599
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES5TV    11,085,280      UW2M (URØMC)    10,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ESTV    11,085,280      UW2M (URØMC)    10,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ESTV    11,085,280      UW2M (URØMC)    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ESTV    11,085,280      UW2M (URØMC)    10,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES5TV    11,085,280      UW2M (URØMC)    10,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    I5MXX      I5MXX    60,006      IU5FFM    14,912
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ESTV    11,085,280      UW2M (URØMC)    0,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    ISMXX      ISMXX    60,006      IUSFFM    14,912      Single Op 14 MHz High Power
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ESTV    11,085,280      UW2M (URØMC)    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      ISMXX    60,006      IU5FFM    14,912      Single Op 14 MHz High Power      S5ØK    5,204,000
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES5TV    11,085,280      UW2M (URØMC)    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    I5MXX      ISMXX    60,006      IUSFFM    14,912      Single Op 14 MHz High Power      S5ØK    5,204,000      OE6Z (0E6MBG)    4,894,373
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ESTV    11,085,280      UW2M (URØMC)    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      ISMXX    60,006      IU5FFM    14,912      Single Op 14 MHz High Power      S5ØK    5,204,000
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES5TV    11,085,280      UW2M (URØMC)    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    I5MXX      ISMXX    60,006      IUSFFM    14,912      Single Op 14 MHz High Power      S5ØK    5,204,000      OE6Z (0E6MBG)    4,894,373
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ESTV    11,085,280      UW2M (URØMC)    10,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      ISMX    60,006      IU5FFM    14,912      Single Op 14 MHz High Power    550K      Single Op 14 MHz High Power    550K      Single Op 7 MHz High Power    550K      Single Op 7 MHz High Power    550K      Single Op 7 MHz High Power    550K
K2GMŸ	NM2R    151,194      KT3RR    64,815      N9OU    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES5TV    11,085,280      UW2M (URØMC)    0,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      IS5ØK    5,204,000      OEGZ (OE6MBG)    4,894,373      OK7W    3,845,961      Single Op 7 MHz High Power      EDSS (EASSR)    7,227,081      RK3AW    1,970,318
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ESTV    11,085,280      UW2M (URØMC)    10,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      ISMX    60,006      IU5FFM    14,912      Single Op 14 MHz High Power    550K      Single Op 14 MHz High Power    550K      Single Op 7 MHz High Power    550K      Single Op 7 MHz High Power    550K      Single Op 7 MHz High Power    550K
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES5TV    11,085,280      UW2M (URØMC)    0,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      ISMXX    60,006      IU5FFM    14,912      Single Op 14 MHz High Power    5,204,000      OEGZ (OE6MBG)    4,894,373      OK7W    3,845,961      Single Op 7 MHz High Power    ED5S (EA5SR)      Single Op 7 MHz High Power    ED5S (EA5SR)      K3AW    1,970,318      GM5X (GM4YXI)    1,284,916
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES5TV    11,085,280      UW2M (URØMC)    10,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      ISOK    5,204,000      OEEZ (OE6MBG)    4,894,373      OK7W    3,845,961      Single Op 7 MHz High Power    ED55 (EA5SR)      Single Op 7 MHz High Power    ED55 (EA5SR)      Single Op 3.7 MHz High Power    1,970,318      GM5X (GM4YXI)    1,284,916
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES5TV    11,085,280      UW2M (URØMC)    10,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      ISMX    60,006      IUSFFM    14,912      Single Op 14 MHz High Power    55ØK      S5ØK    5,204,000      OEGZ (OE6MBG)    4,894,373      OK7W    3,845,961      Single Op 7 MHz High Power    EDSS (EA5SR)      EDSS (EA5SR)    7,227,081      RK3AW    1,970,318      GM5X (GM4YXI)    1,284,916      Single Op 3.7 MHz High Power    SP8R (SP7VC)
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES5TV    11,085,280      UW2M (URØMC)    0,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      I5MXX    60,006      IUSFFM    14,912      Single Op 14 MHz High Power    550K      Siogle Op 7 MHz High Power    550K      Single Op 7 MHz High Power    550K      Single Op 7 MHz High Power    843,937      OK7W    3,845,961      Single Op 7 MHz High Power    ED55 (EA5SR)      Single Op 7 MHz High Power    1,970,318      GM5X (GM4YXI)    1,284,916      Single Op 3.7 MHz High Power    SP8R (SP7VC)      SP8R (SP7VC)    2,597,652      UX2X (UT2XQ)    2,261,250
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES5TV    11,085,280      UW2M (URØMC)    10,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      ISMX    60,006      IUSFFM    14,912      Single Op 14 MHz High Power    55ØK      S5ØK    5,204,000      OEGZ (OE6MBG)    4,894,373      OK7W    3,845,961      Single Op 7 MHz High Power    EDSS (EA5SR)      EDSS (EA5SR)    7,227,081      RK3AW    1,970,318      GM5X (GM4YXI)    1,284,916      Single Op 3.7 MHz High Power    SP8R (SP7VC)
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES5TV    11,085,280      UW2M (URØMC)    0,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      IS5ØK    5,204,000      OEGZ (DE6MBG)    4,894,373      OK7W    3,845,961      Single Op 7 MHz High Power    ED5S (EA5SR)      ED5S (EA5SR)    7,227,081      RK3AW    1,970,318      GM5X (GM4YXI)    1,284,916      Single Op 3.7 MHz High Power      SP8R (SP7VC)    2,597,652      UX2X (UT2XQ)    2,261,250      DR5ØDIG (DL3B0A)    1,756,676
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES57V    11,085,280      UW2M (URØMC)    10,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      ISMXX    60,006      IUSFFM    14,912      Single Op 14 MHz High Power    55ØK      S5ØK    5,204,000      OE62 (OE6MBG)    4,894,373      OK7W    3,845,961      Single Op 7 MHz High Power    EDS (EA5SR)      Single Op 3.7 MHz High Power    EDS (EA5SR)      Single Op 3.7 MHz High Power    Single Op 3.7 MHz High Power      Single Op 3.7 MHz High Power    Single Op 3.7 MHz High Power      Single Op 3.7 MHz High Power    Single Op 3.7 MHz High Power      Single Op 3.7 MHz High Power    Single Op 1.8 MHz High Power
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES5TV    11,085,280      UW2M (URØMC)    0,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      ISMXX    60,006      IU5FFM    14,912      Single Op 14 MHz High Power    550K      S50K    5,204,000      OE62 (OE6MBG)    4,894,373      OK7W    3,845,961      Single Op 7 MHz High Power      ED5S (EA5SR)    7,227,081      RK3AW    1,970,318      GM5X (GM4YXI)    1,284,916      Single Op 3.7 MHz High Power    SP8R (SP7VC)      SP8R (SP7VC)    2,597,652      UX2X (UT2XQ)    2,261,250      DR5ØDIG (DL3BOA)    1,756,676      Single Op 1.8 MHz High Power      LY2PAD    61,533<
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES57V    11,085,280      UW2M (URØMC)    10,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      ISMXX    60,006      IUSFFM    14,912      Single Op 14 MHz High Power    55ØK      S5ØK    5,204,000      OE62 (OE6MBG)    4,894,373      OK7W    3,845,961      Single Op 7 MHz High Power    EDS (EA5SR)      Single Op 3.7 MHz High Power    EDS (EA5SR)      Single Op 3.7 MHz High Power    Single Op 3.7 MHz High Power      Single Op 3.7 MHz High Power    Single Op 3.7 MHz High Power      Single Op 3.7 MHz High Power    Single Op 3.7 MHz High Power      Single Op 3.7 MHz High Power    Single Op 1.8 MHz High Power
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES5TV    11,085,280      UW2M (URØMC)    10,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      ISMX    60,006      IUSFFM    14,912      Single Op 14 MHz High Power    S50K      Siogle Op 14 MHz High Power    S50K      Single Op 7 MHz High Power    S50K      Single Op 7 MHz High Power    S50K      Single Op 3.7 MHz High Power    SP8R (SP7VC)      S.2, 597, 652    UX2X (UT2XQ)    2, 261, 250      DR50DIG (DL3BQA)    1, 756, 676      Single Op 1.8 MHz High Power    LY2PAD      LY2PAD    61, 533      G4WPD    49, 274
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES5TV    11,085,280      UW2M (URØMC)    10,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      ISMX    60,006      IUSFFM    14,912      Single Op 14 MHz High Power    S5ØK      SJOK7W    3,845,961      Single Op 7 MHz High Power    S5ØK      SJOK7W    3,845,961      Single Op 3.7 MHz High Power    ED5S (EASSR)      FX3AW    1,970,318      GM5X (GM4YXI)    1,284,916      Single Op 3.7 MHz High Power    SP8R (SP7VC)      SP8R (SP7VC)    2,597,652      UX2X (UT2X0)    2,261,250      DR5DDIG (DL3BOA)    1,756,676      Single Op 1.8 MHz High Power    LY2PAD      LY2PAD    61,533
K2GMŸ	NM2R    151,194      KT3RR    64,815      N90U    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES5TV    11,085,280      UW2M (URØMC)    10,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      ISMXX    60,006      IUSFFM    14,912      Single Op 21 MHz High Power      S5ØK    5,204,000      OE62 (OE6MBG)    4,894,373      OK7W    3,845,961      Single Op 7 MHz High Power    ED55 (EA5SR)      Single Op 3.7 MHz High Power    ED55 (EA5SR)      Single Op 3.7 MHz High Power    1,970,318      GM5X (GM4YXI)    1,284,916      Single Op 3.7 MHz High Power    SP8R (SP7VC)      SP8R (SP7VC)    2,597,652      UX2X (UT2XQ)    2,261,250      DR5ØDIG (DL3BQA)    1,756,676      Single Op 1.8 MHz High Power <td< td=""></td<>
K2GMŸ	NM2R    151,194      KT3RR    64,815      N9OU    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES5TV    11,085,280      UW2M (URØMC)    10,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      ISOK    5,204,000      OEEZ (CEEMBG)    4,894,373      OK7W    3,845,961      Single Op 7 MHz High Power    2505 (EASSR)      SIGME OP 3.7 MHz High Power    SPR (SP7VC)      Single Op 3.7 MHz High Power    SPR (SP7VC)      SPR (SP7VC)    2,597,652      UX2X (UT2X0)    2,261,250      DR5DDIC (DL3BOA)    1.756,676      Single Op 1.8 MHz High Power    SPR (SP7VC)      UY2PAD    61,533      G4WPD    49,274      DL1AOB    39,468      Single Op 1.8 MHz High Power
K2GMŸ	NM2R    151,194      KT3RR    64,815      N9OU    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES5TV    11,085,280      UW2M (URØMC)    10,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      ISOK    5,204,000      OEEZ (CEEMBG)    4,894,373      OK7W    3,845,961      Single Op 7 MHz High Power    2505 (EASSR)      SIGME OP 3.7 MHz High Power    SPR (SP7VC)      Single Op 3.7 MHz High Power    SPR (SP7VC)      SPR (SP7VC)    2,597,652      UX2X (UT2X0)    2,261,250      DR5DDIC (DL3BOA)    1.756,676      Single Op 1.8 MHz High Power    SPR (SP7VC)      UY2PAD    61,533      G4WPD    49,274      DL1AOB    39,468      Single Op 1.8 MHz High Power
K2GMŸ    24,472      K8ZT    13,986      Single Op 14 MHz QRP Assisted      W5NN (K5NZ)    10,665      Multi-Single High Power      NV9L    8,769,583      NW1P    8,021,790      W5MX    4,453,720      KT5J    6,662,031      W5MX    4,453,720      KZ1W    3,917,230      Multi-Single Low Power      WK1DS    565,841      N8YXR    531,846      W8AJT    155,092      W5GAD    143,360      Multi-Two    K3LR      K3LR    22,032,965      K9CT    9,415,488      WC6H    8,289,190      W06x    3,547,600      KT7E    3,325,675      Multi-Multi    NE1C      NE1C    9,867,598      WX3B    9,000,480      NR60    7,508,700      Rookie    Single Op All Band High Power      WZ1Y    453,120      W4BT    348,320      AG76P    87,528	NM2R    151,194      KT3RR    64,815      N9OU    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES5TV    11,085,280      UW2M (URØMC)    0,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      ISMX    60,006      IUSFFM    14,912      Single Op 14 MHz High Power      S5ØK    5,204,000      OEGZ (OE6MBG)    4,894,373      OK7W    3,845,961      Single Op 7 MHz High Power      ED5S (EA5SR)    7,227,081      RK3AW    1,970,318      GM5X (GM4YXI)    1,284,916      Single Op 3.7 MHz High Power      SP8R (SP7VC)    2,597,652      UX2X (UT2X0)    2,261,250      DR5ØDIG (DL3BQA)    1,756,676      Single Op 1.8 MHz High Power    1,284,916      Single Op 1.8 MHz High Power    1,593
K2GMŸ	NM2R    151,194      KT3RR    64,815      N9OU    34,100      Single Op 3.7 MHz Low Power      AB1J    27,169      EUROPE      Single Op All Band High Power      E7DX    14,213,126      ES5TV    11,085,280      UW2M (URØMC)    0,531,599      EC2DX    9,593,768      9A73A (9A1UN)    9,327,546      Single Op 21 MHz High Power    15MXX      ISMX    60,006      IUSFFM    14,912      Single Op 14 MHz High Power      S5ØK    5,204,000      OEGZ (OE6MBG)    4,894,373      OK7W    3,845,961      Single Op 7 MHz High Power      ED5S (EA5SR)    7,227,081      RK3AW    1,970,318      GM5X (GM4YXI)    1,284,916      Single Op 3.7 MHz High Power      SP8R (SP7VC)    2,597,652      UX2X (UT2X0)    2,261,250      DR5ØDIG (DL3BQA)    1,756,676      Single Op 1.8 MHz High Power    1,284,916      Single Op 1.8 MHz High Power    1,593

5,148	RC7KY1,061,340
	LY5Q906,704
ala Elamont	IW2BZY541,044
gle Element nd High Power	
	Single Op 3.7 MHz Low Power
	PGØØT (PA2TMS)1,130,875
	LY9A692,038
2,440,270	SP4SHD296,660
1,820,594	
1,758,315	Single Op 1.8 MHz Low Power
	YT8A179,456
lz High Power	E74R93,060
	OK1JOK70,176
lz High Power	Single Op All Band High Power
540,690	Assisted
104,796	IO4X (IT9RGY)12,686,548
	LY29A (LY4A)11,680,650
z High Power	CR6K (CT1CJJ)10,477,080
	OM3BH10,460,880
	LY7Z9,491,697
Hz High Power	L172
	Single Op 21 MHz High Power
nd I am Damas	Assisted
nd Low Power	YT3PL43,904
853,678	II9Y (IT9IQQ)43,044
619,887	DL1WA33,984
584,440	
538,752	Single Op 14 MHz High Power
532,532	Assisted
Hz Low Power	DL2ARD
335,989	YT3X4,140,436
119,970	UD4F2,760,988
60,516	
	Single Op 7 MHz High Power
In Law Damas	Assisted
Iz Low Power	SN3A (SP3GEM)8,049,132
	LY1FW4,508,740
64,815	0L9Z (0K2PVF)4,269,680
34,100	( ,
	Single Op 3.7 MHz High Power
Hz Low Power	Assisted
THE LOW TOWNT	
	0L4C4,339,440
27,169	0L4C4,339,440 S54ZZ2,454,834
27,169	0L4C4,339,440
27,169 DPE	0L4C4,339,440 S54ZZ2,454,834 S51YI1,859,840
27,169 DPE nd High Power	0L4C
27,169 DPE nd High Power 14,213,126	0L4C4,339,440 S54ZZ2,454,834 S51YI1,859,840
27,169 DPE nd High Power 14,213,126	0L4C
	0L4C
	0L4C4,339,440 S54ZZ2,454,834 S51YI1,859,840 Single Op 1.8 MHz High Power Assisted S573G (S56M)627,944 YT6K (YU7KW)214,816
	0L4C
	0L4C4,339,440 S54ZZ.2,454,834 S51YI1,859,840 Single Op 1.8 MHz High Power Assisted S573G (S56M).627,944 YT6K (YU7KW).214,816 SP3GTS151,369
	0L4C
	0L4C4,339,440 S54ZZ.2,454,834 S51YI1,859,840 Single Op 1.8 MHz High Power Assisted S573G (S56M)627,944 YT6K (YU7KW).214,816 SP3GTS151,369 Single Op All Band Low Power Assisted
	0L4C4,339,440 S54ZZ.2,454,834 S51YI
	0L4C4,339,440 S54ZZ.2,454,834 S51YI1,859,840 Single Op 1.8 MHz High Power Assisted S573G (S56M)627,944 YT6K (YU7KW)214,816 SP3GTS151,369 Single Op All Band Low Power Assisted I08SN (I28FWN)3,422,991 TM3Z (F4DSK)3,205,395
	0L4C4,339,440 S54ZZ2,454,834 S51YI1,859,840 Single Op 1.8 MHz High Power Assisted S573G (S56M)627,944 YT6K (YU7KW)214,816 SP3GTS151,369 Single Op All Band Low Power Assisted IO8SN (IZ8FWN)3,422,991 TM3Z (F4DSK)3,205,395 RL6M
	0L4C4,339,440 S54ZZ.2,454,834 S51YI
	0L4C4,339,440 S54ZZ2,454,834 S51YI1,859,840 Single Op 1.8 MHz High Power Assisted S573G (S56M)627,944 YT6K (YU7KW)214,816 SP3GTS151,369 Single Op All Band Low Power Assisted IO8SN (IZ8FWN)3,422,991 TM3Z (F4DSK)3,205,395 RL6M
	0L4C    4,339,440      S54ZZ    2,454,834      S51YI    1,859,840      Single Op 1.8 MHz High Power Assisted      S573G (S56M)    627,944      YT6K (YU7KW)    214,816      SP3GTS    151,369      Single Op All Band Low Power Assisted    108SN (128FWN)      108SN (128FWN)    3,422,991      TM3Z (F4DSK)    3,205,395      RL6M    1,920,293      Y03APJ    1,760,243      RO5F (UA3FQ)    1,680,783
	0L4C4,339,440 S54ZZ2,454,834 S51YI1,859,840 Single Op 1.8 MHz High Power Assisted S573G (S56M)627,944 YT6K (YU7KW)214,816 SP3GTS151,369 Single Op All Band Low Power Assisted I08SN (IZ8FWN)3,422,991 TM3Z (F4DSK)3,205,395 RL6M1,920,293 Y03APJ1,760,243 R05F (UA3FQ)1,680,783 Single Op 21 MHz Low Power
	0L4C4,339,440 S54ZZ.2,454,834 S51YI1,859,840 Single Op 1.8 MHz High Power Assisted S573G (S56M)627,944 YT6K (YU7KW).214,816 SP3GTS151,369 Single Op All Band Low Power Assisted IQ8SN (IZ8FWN)3,422,991 TM32 (F4DSK).3,205,395 RL6M1,920,293 YO3APJ.1,760,243 RO5F (UA3FQ)1,680,783 Single Op 21 MHz Low Power Assisted
	0L4C4,339,440 S54ZZ2,454,834 S51YI1,859,840 Single Op 1.8 MHz High Power Assisted S573G (S56M)627,944 YT6K (YU7KW)214,816 SP3GTS151,369 Single Op All Band Low Power Assisted I08SN (IZ8FWN)3,422,991 TM3Z (F4DSK)3,205,395 RL6M1,920,293 Y03APJ1,760,243 R05F (UA3FQ)1,680,783 Single Op 21 MHz Low Power
	0L4C4,339,440 S54ZZ2,454,834 S51YI1,859,840 Single Op 1.8 MHz High Power Assisted S573G (S56M)627,944 YT6K (YU7KW)214,816 SP3GTS151,369 Single Op All Band Low Power Assisted I08SN (IZ8FWN)3,422,991 TM3Z (F4DSK)3,205,395 RL6M1,920,293 Y03APJ1,760,243 R05F (UA3FQ)1,680,783 Single Op 21 MHz Low Power Assisted I1WXY16,872
	0L4C4,339,440 S54ZZ.2,454,834 S51YI1,859,840 Single Op 1.8 MHz High Power Assisted S573G (S56M)627,944 YT6K (YU7KW).214,816 SP3GTS151,369 Single Op All Band Low Power Assisted IQ8SN (IZ8FWN)3,422,991 TM32 (F4DSK).3,205,395 RL6M1,920,293 YO3APJ.1,760,243 RO5F (UA3FQ)1,680,783 Single Op 21 MHz Low Power Assisted
	0L4C4,339,440 S54ZZ2,454,834 S51YI1,859,840 Single Op 1.8 MHz High Power Assisted S573G (S56M)627,944 YT6K (YU7KW)214,816 SP3GTS151,369 Single Op All Band Low Power Assisted I08SN (IZ8FWN)3,422,991 TM3Z (F4DSK)3,205,395 RL6M1,920,293 Y03APJ1,760,243 R05F (UA3FQ)1,680,783 Single Op 21 MHz Low Power Assisted I1WXY16,872
	0L4C    4,339,440      S54ZZ    2,454,834      S51YI    1,859,840      Single Op 1.8 MHz High Power Assisted      S573G (S56M)    .627,944      YT6K (YU7KW)    .214,816      SP3GTS    .151,369      Single Op All Band Low Power Assisted    108SN (I28FWN)      108SN (I28FWN)    .3,422,991      TM3Z (F4DSK)    .3,205,395      RL6M    .1,920,293      Y03APJ    .1,760,243      R05F (UA3FQ)    .1,680,783      Single Op 21 MHz Low Power Assisted    11WXY      11WXY    .16,872      Single Op 14 MHz Low Power    16,872
	0L4C    4,339,440      S54ZZ    2,454,834      S51YI    1,859,840      Single Op 1.8 MHz High Power Assisted      S573G (S56M)    .627,944      YT6K (YU7KW)    .214,816      SP3GTS    .151,369      Single Op All Band Low Power Assisted    108SN (IZ8FWN)      IQ8SN (IZ8FWN)    .3,205,395      RL6M    .1,920,293      Y03APJ    .1,760,243      RO5F (UA3FQ)    .1,680,783      Single Op 21 MHz Low Power Assisted    11WXY      L1WXY    .16,872      Single Op 14 MHz Low Power Assisted    .1,349,365
	0L4C4,339,440 S54ZZ.2,454,834 S51YI1,859,840 Single Op 1.8 MHz High Power Assisted S573G (S56M)627,944 YT6K (YU7KW).214,816 SP3GTS151,369 Single Op All Band Low Power Assisted IQ8SN (IZ8FWN)3,422,991 TM32 (F4DSK).3,205,395 RL6M1,920,293 YO3APJ1,760,243 RO5F (UA3FQ)1,680,783 Single Op 21 MHz Low Power Assisted I1WXY16,872 Single Op 14 MHz Low Power Assisted
	0L4C    4,339,440      S54ZZ    2,454,834      S51YI    1,859,840      Single Op 1.8 MHz High Power Assisted      S573G (S56M)    .627,944      YT6K (YU7KW)    .214,816      SP3GTS    .151,369      Single Op All Band Low Power Assisted    108SN (I28FWN)      J08SN (I28FWN)    .3,422,991      TM3Z (F4DSK)    .3,205,395      RL6M    1,920,293      Y03APJ    .1,760,243      RO5F (UA3FQ)    .1,680,783      Single Op 21 MHz Low Power Assisted    11WXY      I1WXY    .16,872      Single Op 14 MHz Low Power Assisted    .1,349,365      UR3GU    .1,349,365      UR2GU    .13,49,365
	0L4C4,339,440 S54ZZ.2,454,834 S51YI1,859,840 Single Op 1.8 MHz High Power Assisted S573G (S56M)627,944 YT6K (YU7KW).214,816 SP3GTS151,369 Single Op All Band Low Power Assisted IQ8SN (IZ8FWN)3,422,991 TM32 (F4DSK).3,205,395 RL6M1,920,293 RO5F (UA3FQ)1,680,783 Single Op 21 MHz Low Power Assisted I1WXY1680,783 Single Op 21 MHz Low Power Assisted I1WXY16872 Single Op 14 MHz Low Power Assisted UR3GU1,349,365 UR2Y (USØYW)763,040 IT9XTP
	0L4C    4,339,440      S54ZZ    2,454,834      S51YI    1,859,840      Single Op 1.8 MHz High Power Assisted      S573G (S56M)    .627,944      YT6K (YU7KW)    .214,816      SP3GTS    .151,369      Single Op All Band Low Power Assisted      IQ8SN (IZ8FWN)    .3,422,991      TM3Z (F4DSK)    .3,205,395      RL6M    .1920,293      Y03APJ    .1,760,243      RO5F (UA3FQ)    .1,680,783      Single Op 21 MHz Low Power Assisted    11WXY      UR3GU    .1,349,365      UR2QU    .1,349,365      UR2QU USØYW)
	0L4C    4,339,440      S54ZZ    2,454,834      S51YI    1,859,840      Single Op 1.8 MHz High Power Assisted      S573G (S56M)    .627,944      YT6K (YU7KW)    .214,816      SP3GTS    .151,369      Single Op All Band Low Power Assisted    108SN (I28FWN)      108SN (I28FWN)    .3,422,991      TM3Z (F4DSK)    .3,205,395      RL6M    .1,920,293      YO3APJ    .1,760,243      RO5F (UA3FQ)    .1,680,783      Single Op 21 MHz Low Power Assisted    11WXY      L1WXY    .16,872      Single Op 14 MHz Low Power Assisted    .1,349,365      UR3GU
	0L4C    4,339,440      S54ZZ    2,454,834      S51YI    1,859,840      Single Op 1.8 MHz High Power Assisted      S573G (S56M)    627,944      YT6K (YU7KW)    214,816      SP3GTS    151,369      Single Op All Band Low Power Assisted    1085N (IZ8FWN)      1085N (IZ8FWN)    3,422,991      TM32 (F4DSK)    3,205,395      RL6M    1,920,233      Y03APJ    1,660,243      R05F (UA3FQ)    1,680,783      Single Op 21 MHz Low Power Assisted    11WXY      I1WXY    16,872      Single Op 14 MHz Low Power Assisted    1,349,365      UR3GU    1,349,365      UR2Y (USØYW)    .763,040      IT9XTP    .573,420      Single Op 7 MHz Low Power Assisted    .573,420      Single Op 7 MHz Low Power Assisted    .573,420      Single Op 7 MHz Low Power Assisted    .573,420
	0L4C    4,339,440      S54ZZ    2,454,834      S51YI    1,859,840      Single Op 1.8 MHz High Power Assisted      S573G (S56M)    .627,944      YT6K (YU7KW)    .214,816      SP3GTS    .151,369      Single Op All Band Low Power Assisted      IQ8SN (IZ8FWN)    .3,422,991      TM3Z (F4DSK)    .3,205,395      RL6M    .1,920,293      Y03APJ    .1,760,243      RO5F (UA3FQ)    .1,680,783      Single Op 21 MHz Low Power Assisted    11WXY      UR3GU    .1,349,365      UR2Y (USØYW)    .763,040      IT9XTP    .573,420      Single Op 7 MHz Low Power Assisted      OK6T (OK1WCF)    .1,115,604      UZ8U    .1,315,604
	0L4C    4,339,440      S54ZZ    2,454,834      S51YI    1,859,840      Single Op 1.8 MHz High Power Assisted      S573G (S56M)    627,944      YT6K (YU7KW)    214,816      SP3GTS    151,369      Single Op All Band Low Power Assisted    1085N (IZ8FWN)      1085N (IZ8FWN)    3,422,991      TM32 (F4DSK)    3,205,395      RL6M    1,920,233      Y03APJ    1,660,243      R05F (UA3FQ)    1,680,783      Single Op 21 MHz Low Power Assisted    11WXY      I1WXY    16,872      Single Op 14 MHz Low Power Assisted    1,349,365      UR3GU    1,349,365      UR2Y (USØYW)    .763,040      IT9XTP    .573,420      Single Op 7 MHz Low Power Assisted    .573,420      Single Op 7 MHz Low Power Assisted    .573,420      Single Op 7 MHz Low Power Assisted    .573,420

I Y4I

LZ9V....

IW1FRU.

II8M (IZ8EYP) ... RU4SS .....

LIS2YW

0

LY5W88	
Single Op 3.7 MHz Low Po	wer

Assisted	
L9R1,12	9,968

SP4DZT	
UY7C	.490,000

2 285 865

..2.242.023

...21,014

..888,811

.561.959 .438,048

Single Op 21 MHz Low Power

Single Op 14 MHz Low Power

Single Op 7 MHz Low Power

RC7KY.....1,061,340

Single Op 1.8 MHz Low Power		
Assisted		
HGØR (HAØNAR)	370,272	
LY4ZZ (LY2BMX)	154,287	
OK6Y (OK2PTZ)	82,260	

Single Op All Band QRP		
0K2FD	594,280	
ES6RW	552,672	
HG6C (HA6IAM)	335,280	
JT5EOX	274,050	
IB5EE0	258.352	

Single	e Op 14 MHz QRP
.Y20U	
Y5G	94 367

LY5G	 	 94,367
MØHMJ	 	 77,660

Single Op / MHz QKP		
LZ1DM	164,478	
LY2NK	154,940	
UT5UUV		

	Single	Op 3.7 MH:	z QRP
OK6K	(OK5IM)		142,922

Single Op 1.8 MHz QRP	
HA1TI	
EU1AA32,886	

Single Op All Band QF	RP Assisted
RT4W	211,888
RA5AD (R3AP)	168,840
YU1LM/QRP	167,577
9A40P	165,312
MM3AWD	117,249

Single Op 21 MHz QRP Assisted LZ24M (LZ3DX) .....10,136

Single Op 14 MHz QRP	Assisted
IZ3NVR	22,220
YU3VIP	20,458
EA4GRZ	12,525

Single Op 7 MHz QRP	Assisted
F4BKV	282,744
LZ8U	73,584
UT3EK	67,767

Single Op 3.7 MHz QR	P Assisted
9A9J (9A7ZZ)	171,028
E740	144,333
I71ANK	16 380

#### Multi-Sinale High Power

TM6M	.22,136,170
UA5L	.16,586,764
1050	.15,760,875
RU1A	.14,191,905
9A5Y	.11.679.745

#### Multi-Single Low Power

IR9K	1,629,920
LY8ØØSMG	1,430,572
UW6E	1,320,936
4U1A	1,212,888
0L1Z	1,020,096

Multi-Two
-----------

EI19RE	.27,584,865
ОМ7ØКАР	.25,557,933
IR6T	.24,330,240
II9P	.18,011,415
HG7T	.16,823,641

#### Multi-Multi

9A1A	32,819,200
LZ9W	22,652,608
OT5A	11,524,116
II2S	10,991,019
IK2YCW	10,071,512

# Rookie

Single Up All Band Hi	gn Power
SQ3M	382,570
0K2XDD	264,576
UR5KIT	

LY71A	
Single Op All Band L	
E71AZ	
OM4IK	,
R2ARR	
S55BA	347,026
Single Op 14 MHz Lo	w Power
EM9Q (UR9QQ)	
CS7APD	
F4IEX	
	- / -
Single Op 7 MHz Lo	w Power
YU4TDX	184,847
YL2LW	108,252
IU5ICR	
Single Op 3.7 MH	z QRP
D01WHU	33,528
Tribander/Single E	
Single Op All Band H	
EW5Z (EU1A)	
RJ4P	
103F (IZ3SQW)	3,213,243
Single Op 14 MHz Hi	
R5AJ	1,443,924
R5AJ RU5TT	1,443,924 581,910
R5AJ	1,443,924 581,910
R5AJ RU5TT ED3B (EA3BOX)	1,443,924 581,910 498,400
R5AJ RU5TT ED3B (EA3BOX) Single Op 7 MHz Hig	1,443,924 581,910 498,400
R5AJ RU5TT ED3B (EA3BOX) Single Op 7 MHz Hig DL4RCE.	1,443,924 581,910 498,400 <b>Jh Power</b> 708,750
R5AJ RU5TT ED3B (EA3BOX) Single Op 7 MHz Hig DL4RCE MM4D (GM4ATA)	1,443,924 581,910 498,400 <b>Jh Power</b> 708,750 534,447
R5AJ RU5TT ED3B (EA3BOX) Single Op 7 MHz Hig DL4RCE.	1,443,924 581,910 498,400 <b>Jh Power</b> 708,750 534,447
R5AJ RU5TT ED3B (EA3BOX) Single Op 7 MHz Hit DL4RCE MM4D (GM4ATA) LY2UU (LY2BUU)	1,443,924 581,910 498,400 <b>Jh Power</b> 708,750 534,447 490,044
R5AJ RU5TT ED3B (EA3BOX) Single Op 7 MHz Hit DL4RCE MM4D (GM4ATA) LY2UU (LY2BUU) Single Op 3.7 MHz H	
R5AJ RU5TT ED3B (EA3BOX) Single Op 7 MHz Hit DL4RCE MM4D (GM4ATA). LY2UU (LY2BUU) Single Op 3.7 MHz H EU4E	
R5AJ RU5TT ED3B (EA3BOX) Single Op 7 MHz Hig DL4RCE MM4D (GM4ATA) LY2UU (LY2BUU) Single Op 3.7 MHz H EU4E	1,443,924 581,910 498,400 <b>jh Power</b> 708,750 534,447 490,044 <b>igh Power</b> 1,147,770 519,170
R5AJ RU5TT ED3B (EA3BOX) Single Op 7 MHz Hit DL4RCE MM4D (GM4ATA). LY2UU (LY2BUU) Single Op 3.7 MHz H EU4E	1,443,924 581,910 498,400 <b>jh Power</b> 708,750 534,447 490,044 <b>igh Power</b> 1,147,770 519,170

Single Op 14 MHz High Power

Single Op 7 MHz High Power

Single Op 3.7 MHz High Power

....667.926

...45,064

ED3C (EA3IBV).....

SP7MU....

	070,404
Single Op 1.8 MHz Hig	gh Power
YT6K (YU7KW)	214,816
UX5IS	91,945
IKØXBX	69,255

Single Op All Band L	.ow Power
RZ3Z	1,428,306
S58WW	1,099,800
0E2S (0E2VEL)	1,089,491

#### Single On 14 MHz Low Power

1 0 10 0
763,040
345,538
281,536

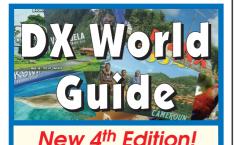
#### Single Op 7 MHz Low Power

IZ4REF	1,051,830
LY5Q	906,704
IW2BZY	541,044

Single Op 3.7 M	Hz Low Power
0L9R	1,129,968
SQ6H (SQ6PLH)	
M6BIR	

#### Single On 1.8 MHz Low Power

Sillyle Up 1.6 Winz Luw Power	
YT8A179,456	5
HA1TI	)
E77EE22,000	)





Known throughout the DX and DXpedition world as a meticulous and tireless operator, Franz Langner, DJ9ZB, is also noted as one of the most knowledgeable individuals in Amateur Radio in terms of documenting DXCC entities.

This is the fourth edition of his series of books bearing the title DX World Guide. It was first published in Germany in 1988 and followed by a second edition, also in Germany in 1977. The third edition, published in the U.S.A in 2012 was the first to use color throughout. This 380-page, fourth edition, also full color throughout, includes information on well over 300 DX entities.

Whether used as a desk reference for the DXer of any level of proficiency or as a "wish book" for DXers just starting his or her DXCC journey, the new DX World Guide is a worthy and pleasant companion!

#### This 380-page, Fourth Edition is available in paperback and on CD!

6 X 9 Paperback - only \$49.95 **Book on CD** – only \$34.95 Buy both the Paperback and CD only \$68.95

Plus applicable shipping and handling charge. Single item shipping charge applies when you purchase both the book and CD together.

CQ Communications, Inc. 17 W. John St., Hicksville, NY 11801 FAX 516 681-2926 http://store.cg-amateur-radio.com

# 2019 CQWW WPX SSB PLAQUE WINNERS AND DONORS

SINGLE OPERATOR ALL BAND

WORLD: Tom Georgens, W2SC Plaque. Won by: CN2CO operated by Dimitri Kryukov, RA3CO WORLD Low Power: Caribbean Contesting Consortium Plaque. Won by: PJ4R operated by John Bayne, KK9A WORLD QRP: Phil Krichbaum, NØKE Plaque. Won by: Karel Karmasin, OK2FD

USA: Atilano de Oms, PY5EG Plaque. Won by: K1LZ operated by Velimir Deric, K3JO USA Low Power: Terry Zivney, N4TZ Plaque. Won by: NR4AA operated by Ted Rappaport, N9NB

USA QRP: Doug Zwiebel, KR2Q Plaque. Won by: **Jason Leslie, WK8U** USA Zone 3 Low Power: Buz Reeves, K2GL Memorial Plaque. Won by: **Paul Dorey, WN6K** 

USA Zone 4 High Power: Jerry Rosalius, WB9Z and Val Hotzfeld, NV9L Plaque. Won by: WZ4F operated by Larry Crim, K4AB

USA Zone 4 Low Power: Jerry Rosalius, WB9Z and Val Hotzfeld, NV9L Plaque. Won by: KS9K operated by Terry Zivney, N4TZ

USA Zone 5 High Power: Charles Wooten, NF4A Plaque. Awarded to: NN2DX operated by Ray Higgins, W2RE\*

EUROPE High Power: Dave Siddall, K3ZJ Plaque. Won by: Emir Braco Memic, E7DX EUROPE QRP: Walter Skudlarek, DJ6QT Memorial by Rhein-Rhur DX Association. Awarded to: Rein Kolk, ES6RW\*

AFRICA: Peter Sprengel, PY5CC Plague, Awarded to: Ulrich Ann. ZR2A\*

ASIA: Chris Terkla, N1XS Plaque. Won by: 4LØA, operated by Andy Kazantsev, UB7K NORTH AMERICA: Albert Crespo, F5VHJ Plaque. Won by: FG4KH, operated by Barroux Francis, F6ASS OCEANIA High Power: Phillip Frazier, K6ZM Memorial Plaque. Won by: Bill Kollenbaum, KH7XS SOUTH AMERICA: Andrew Faber, AE6Y Plaque. Won by: PJ4K, operated by Rich Smith, N6KT

SOUTHERN CONE (CE, CX, LU) Low Power: LU Contest Group Plaque. Won by: Claudio Luna, LU3DK

CANADA High Power: Saskatchewan Contest Club Plaque. Won by: VB3E, operated by Ron Vander Kraats, VE3AT CANADA Low Power: Paul Cassel, VE3SY Memorial Plaque by Contest Club Ontario. Won by: Ed Richardson, VE4VT

JAPAN: Hamad Alnusif, 9K2HN Plaque. Won by: Masaki Okano, JH4UYB ASEAN (3W, 9M, 9V, DU, HS, V85, XU, XW, XZ, YB) High Power: Agus Wibisono, YB2TX Plaque. Won by: V85RH, operated by Hajime Kato, JO1RUR

ASEAN (3W, 9M, 9V, DU, HS, V85, XU, XW, XZ, YB) Low Power: YB Land DX Club Plaque. Won by: Yohanes Budhiono, YB2DX

#### SINGLE OPERATOR, SINGLE BAND

WORLD 28 MHz: Mamuka Kordzakhia, 4L2M Plaque. Won by: ZW5B, operated by Peter Sprengel, PY5CC WORLD 28 MHz Low Power: Six Stars Contest Station LS1D Plaque. Won by: Francisco Fagotte, PU2UAF WORLD 21 MHz: Stuart Santelmann KC1F Memorial (Gene Shablygin, W3UA/RA3AA sponsor) Plaque. Won by: CV7S, operated by Eugenio de Marino, CX7SS

WORLD 14 MHz: Lynn Schriner, WSFO Memorial by NSRZ Plaque. Won by: Marko Munih, S5ØK WORLD 7 MHz: Karsono Suyanto, YBØNDT Plaque. Won by: ED5S, operated by Angel Turpin Guillamon, EA5SR WORLD 3.7 MHz: Roger Miner, K1DQV Plaque. Won by: SP8R, operated by Przemyslaw Golembowski, SP7VC WORLD 1.8 MHz: Dmitri Gorshkov, UA2FB Plaque. Won by: Jeffrey Briggs, VY2ZM

USA 28 MHz: Maurice Schietecatte, N4LZ Plaque. Won by: KZ5MM, operated by Chuck Dietz, W5PR USA 21 MHz: Maurice Schietecatte, N4LZ Plaque. Won by: Sandy Farley, N7RQ USA 14 MHz: Charles Wooten, NF4A Plaque. Won by: Yanco Roque de Escobar, KJ4QHL USA 7 MHz: Yankee Clipper Contest Club Plaque. Won by: NQ2F, operated by John Bagno, KD2RD USA 3.7 MHz: Bernie Welch, W8IMZ Memorial Plaque. Won by: Karl Brandt, ND8DX

EUROPE: 28 MHz: Chuck Dietz, W5PR Plaque: Won by: G. Tommaso, IWØHBY EUROPE 14 MHz: SJ2W Contest Team Plaque. Awarded to: OE6Z operated by Michael Schwab, OE6MBG\* EUROPE 3.7 MHz: Ranko Boca, 403A Plaque. Awarded to: UX2X operated by Toly Melnik, UT2XQ\*

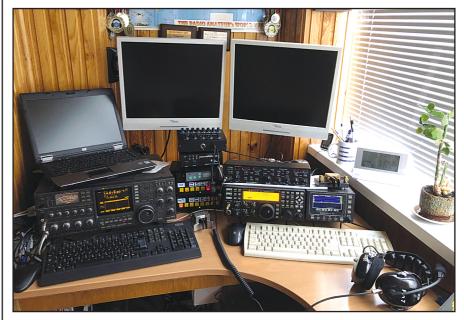


Photo B. EW5Z's station is located in an apartment building. He took first place in the Tribander overlav.

#### SINGLE OPERATOR ASSISTED

WORLD: D4C Monteverde Contest Team Plaque. Won by: EF9Z operated by Jorge Taboada Pareja, EA9LZ USA: Alabama Contest Group Plaque. Won by: Paul Merrill, KK6P/1 EUROPE: Martin Huml, OLSY Plaque. Won by: IO4X, operated by Gabry Iuliani, IT9RGY ASIA: Rafal Dunal, SQ6CNN Plaque. Won by: 4Z7Z, operated by Seth Levitats, 4X1DX OCEANIA: Sid Caesar, NH7C Plaque. Won by: Ken Bawden, VK4QH INDONESIA Single Operator (Any Category): Anda Yudas, YB6HAI Plaque. Won by: Yana Koryana, YB1AR

#### **OVERLAY CATEGORIES**

WORLD Tribander/Single-Element: Nate Moreschi, N4YDU Plaque. Won by: EW5Z operated by Sergey Babakhin, EU1A

USA Tribander/Single-Element: Joe Miller, KJ8O Plaque. Won by: Tim Shoppa, N3QE USA Tribander/Single-Element Low Power: Alex M. Josza, KG1E Plaque. Won by: Ken Goetz, N2SQW EUROPE Tribander/Single-Element: Roger Miner, K1DQV Plaque. Awarded to: Igor Vachevski, RJ4P\* WORLD Rookie: Val Edwards W8KIC Memorial (K3LR sponsor) Plaque. Won by: Christopher Hillier, VO1IDX

#### MULTI-OPERATOR, SINGLE-TRANSMITTER

WORLD: Latvian Contest Club Plaque. Won by: P33W operated by RK4FD, 4Z5LA, LZ2HM, R3DCX, R4FO, UA4FER, RW4WR, and RA3AUU

WORLD Low Power: Mike Goode, N9NS Memorial (Hoosier DX and Contest Club sponsor) Plaque. Won by: ZW8T operated by PS8HF, PS8NF, and PS8BR

USA: Steve Bolia, N8BJQ Plaque. Won by: NV9L operated by NV9L, K2DRH, K9TK, K9NR, and WB9Z USA Low Power: Matt Tatro, NM1C Plaque. Won by: WK1DS operated by WX4TV, N8ZQZ, WX4TVJ, AE4FH, KM4IPF, and KM4TXT

EUROPE: Tonno Vahk, ES5TV Plaque. Won by: TM6M operated by F1AKK, F4DXW, and F8DBF NORTH AMERICA: Jerry Rosalius, WB9Z and Val Hotzfeld, NV9L Plaque: Won by: VP5P operated by AF3K and W2TT

#### MULTI-OPERATOR, TWO-TRANSMITTER

WORLD: Ken Adams, K5KA Memorial Plaque. Won by: EI19RE operated by IK2QEI, IK2SGC, OK1RU, OK1FFU, and OM6NM

USA: Florida Contest Group Plaque. Won by: K3LR operated by KM4ATT, NN1C, VE7DZO, HA8RT, K6JO, and KG5HVO

EUROPE: Rich Strand, KL7RA Memorial Plaque. Awarded to: OM7ØKAP operated by OK2BFN, OM2IB, OM3PA, OM4MM, OM5RW, OM5ZW, and SP9LJD\*

#### MULTI-OPERATOR, MULTI-TRANSMITTER

WORLD: Steve "Sid" Caesar, NH7C Plaque. Won by: CN3A operated by IK2QEI, IK2SGC, OK1RI, OK1FFU, OM6NM, IZ2DLV, IZ2ZOZ, and CN8WW

USA: Dale Hoppe, K6UA Memorial Plaque. Won by: NE1C operated by K2IW, AG1Z, W1IM, KX1X, K1NZ, NT1K, and K1TTT

EUROPE: Rick Dougherty, NQ4I Plaque. Won by: 9A1A operated by 9A5W, 9A9A, 9A7R, 9A5E, 9A7C, 9A6A, 9A7RA, 9A3SMS, 9A8A, 9A2EU, 9A7DR, and S53K

CONTEST EXPEDITION

WORLD: Gail M. Sheehan, K2RED Plague. Not awarded

\*Denotes awarded to runner-up in category



Photo C. EW5Z doesn't need a lot of space or a huge antenna to compete in contests as evidenced by his winning the Tribander overlay.

tribanders can achieve huge scores. There were 780 entrants in this overlay. EW5Z (EU1A) won from his station (*Photos B & C*) in an apartment building while 4Z4AK beat RZ3Z in the lowpower crowd. N3QE beat perennial champ N4PN in the U.S. Triband-Wires race to complete his "TB-Wires triple play" — WPX plaques for SSB, CW, and RTTY TB-Wires. FB, Tim.

# **Multi-Operator**

P33W won the Multi-Operator Single-Transmitter plaque. EI19RE topped the competitive multi-two category this year. CN3A returned to the Multi-Multi category, besting D4C. There were 114 entries in the multi-single low power category, with the team at HI3K again coming in second, this time to the gang at ZW8T.

NV9L again won the stateside M/S high-power plaque. The family club station WK1DS/4 was again the U.S. low

# MILLIWATTS <sup>70</sup> KILOWATTS<sup>™</sup> In Stock Now!

Semiconductors for Manufacturing and Servicing Communications Equipment



RF Modules

Semiconductors

• Transmitter Tubes



# VO1CBL's Tale



VO1IDX earned his Canadian license two years ago and loved it so much, he went on to pass all three license classes in the U.S.

I have only been a ham for two years, I earned my first license in June 2017 as a basic amateur with honors in Canada, and upgraded to Advanced the following month and became known as VO1IDX. Just last month, I wrote all three FCC exams to achieve an Amateur Extra Class license in the U.S. and obtained the vanity call K1IDX. Having retired three years ago, I had a lot of time on my hands and wanted to maintain my skillset so I chose to get into ham radio.

Since then, I have entered into a cross-border radio project with my American mentor, Sam, K3KLC (a.k.a. VO1CBL) who has taught me a lot. He also helped me finance and build a nice remote network of Flex radios in Canada and the U.S. that we call the North Atlantic Radio Project (NARP), as well as a competitive contest station on the Island of Newfoundland.

I started contesting just about a year ago, and this was my first time entering CQWW WPX SSB contest. The equipment was a Flex 6300 (now upgraded to 6500) that sits in my garage 60 feet behind my house and I operate remotely 99% of the time. The amplifier is an Elecraft KPA 500 with matching KAT500 coupler pushing 400-500 watts to a DX Engineering 43-foot vertical with just 15 radials at 20 meters long each. Normally I run a Mosely Pro57B; however, just days before the contest, it sustained damage from high winds and ice.

Newfoundland is a tough place to be a ham and maintain antennas. I also lost a couple of wire antennas, so was surprised when the 43-foot vertical stood tall and performed as well as it did. I initially was going to play a little, but as meal times approached my wife brought my meals to the shack, which encouraged me to get a little more serious and try. I admit I did wander away from the radio a couple times to play with my kids, but within an hour I was back on the air and calling again. It was a lot of fun to work nearly 80 countries in just two days. I look forward to playing again next year.

– Vy 73, Chris, VO1IDX



VO1IDX keeps his station in a shack in his backyard, which is in Newfoundland, Canada.



VO1IDX operates his station remotely from his house, while the transmitter is in his backyard shack 60feet from the house.

power M/S winner. The "Team Exuberance" youth at K3LR fell just short of setting a new W3 record but easily posted the highest stateside multi-two score.

# Records

There were no new world records this year in the major categories, and only one new continental mark. It is fitting that VY2ZM set a new North American 160-meter mark in a period with minimal solar activity.

Records for all of the various categories and countries can be found at <www.cqwpx.com/records.htm>.

# **Final Observations**

We are glad to again include the complete listing of stations submitting their logs and their line scores. Assisted sta-

# N2SQW's Tale

Ken, N2SQW, writes: "My two favorite items regarding ham radio are contesting and DXing. While I do have an available amplifier, I usually do most contests using low power. I found that my limiting factor was more of what I could hear rather than who could hear me. I can be more competitive in the low power category where I am not competing with the massive antenna farms some stations are fortunate enough to have. It's also vital to be well rested. You can't make contacts if you are not spending time 'in the chair'."



N2SQW's set up looks professional and he looks ready to compete in the 2019 CQWW WPX SSB Contest.

# WZ1Y's Tale

Jack, WZ1Y, said he "used an ICOM IC 7610, Expert Linear's 1.5K-FA amp with a hex beam for 10-40 meters (it has a 40 meter add on kit) at an elevation of 30 feet, and the Hustler 6 BTV for my few contacts on 80 meters. I mostly searched and pounced, and the few short runs I had were filled with stateside contacts. It was the biggest effort I've put into a contest so far. I had tons of fun and can't wait for the next ones! And, I'm 15 years old." What a great start for the U.S. Rookie champion.

WZ1Y is relaxed after winning first place in the U.S. Rookie overlay.



# WPX SSB with the Girl Scouts in Manila

The Manila Girl Scout Council Amateur Radio Club (MGSC ARC) with station callsign DX1MGS is composed of adult licensed volunteers (male and female), Girl Scouts, and adult leaders from different schools in the capital of the Philippines, Manila. Our main objective is to promote amateur radio among our Girl Scouts, who are 12 years old and



The Manila Girl Scout Council Amateur Radio Club (MGSC ARC) used the 2019 CQWW WPX SSB contest as a learning experience for several Girl Scouts in the Philippines' capital city.



The girls took turns operating, logging, and observing.

up. We provide basic radio training at the start of the school year, so we can have them licensed in a few months.

On March 30, MGSC ARC started assembling its members and the Girl Scouts at its Manila Council Ham Shack. A few licensed Girl Scouts were gathered around the radios. One girl was transmitting and one was logging while others listened. Some Girl Scouts who wanted to witness how the contest worked became observers.

Our equipment includes an ICOM 7300 and an Ultrabeam three-element Yagi mounted on a 75-foot tower that was constructed and donated by a ham friend, Hitoshi Fujiwara, JF1IST/ DU1IST from Japan.

It was a very enjoyable, exciting experience for our girls, many of whom were mostly first-timers on HF and DXing. We stayed in the council for a sleepover, taking turns to work DX and make contacts together with our elmers.

Among those who participated were: Linda Mison, DV1CDY; Tasha Mison, 4I1BAT; Judessa Baldia, 4G1DES; Michelle Eduarte, 4H1MCH; Elysa Jana Lasap, 4G1JAN; Winfrey Padlan, 4H1WBP; Arnold Ravago II, DY1YJR; Arnold Ravago IV, DW1VDN; Herbert Guinto, DW1XNG; Jaime Paredes, DW1SVN; Paul Marc Rañon, DW1PDC; and Patrick Hulipas, 4F1PH.

– Tasha Mison 4I1BAT, President, MGSC ARC



MGSC ARC poses for a group shot outside of their ham shack.

tions' line scores are found immediately after the single-operator unassisted line scores for each call area or country. Logs received after the official deadline are shown in italics in the line scores and are not eligible for any awards. In addition, searchable databases of the entire history of the CQWW WPX Contest results are available on the contest website, <www.cqwpx.com>.

There are a number of volunteers making this contest possible. K5ZD and N4TZ provided the skilled personal analysis of the logs that computers alone cannot provide. The software support from K1EA and KM3T enables the timely processing of your logs. Doug, K1DG, handles the plaques in a very timely manner. Paper logs were manually entered by KC9EOQ, WT9Q, WI9WI, KJ9C, and N4TZ. K5ZD has again updated the outstanding CQ WPX website

The 2020 CQ WPX SSB Contest will be held March 28-29. The log deadline is five days after the conclusion on the contest, April 3 at 2359Z. Updated rules will be published in the January issue of CQ and will be posted on the websites mentioned above. Thanks to all of our participants this year and I hope to hear you on the air in 2020!

# **The NEW Shortwave Propagation Handbook**

The single most comprehensive source of information on HF propagation is once again available from CQ!



Phone 516-681-2922 • FAX 516-681-2926 http://store.cq-amateur-radio.com The contest is held each year on the last full weekend of March. The All-Time Records will be updated and published annually. Data following the calls: year of operation, total score, and number of prefix multipliers.

	WORLD RECORD HOLDERS Single Operator			U.S.A. RECORD HOLDERS Single Operator	
1.8	CN2R ('07)1,613,955	399	1.8	K1ZM ('95)	308
3.5	CN2R ('06)11,849,076	894	3.5	K1UO ('10)2,161,782	602
7.0	EF9R ('17)19,451,880	1080	7.0	WU3A/1 ('11)4,731,424	796
14	CN2R ('08)15,778,840	1199	14	KQ2M ('09)7,034,082	1082
21	CN2R ('11)20,704,164	1443	21	KQ2M/1 ('11)9,591,670	1210
28	D4C ('14)17,885,556	1404	28	KQ2M/1 ('14)8,264,263	1141
AB	CN2R ('13)30,683,396	1433	AB	K1LZ ('16)15,981,756	1281
LP	FY5FY ('15)17,380,143	1251	LP	WW2Y ('16)8,047,572	1027
QRP	HC8A ('94)7,520,562	714	QRP	KR2Q ('00)2,688,158	649
Assisted	CQ3L ('15)23,505,780	1388	Assisted	KI1G ('11)13,075,616	1268
Multi-Operator Single Transmitter Multi-Operator Single Transmitter					
CN2AA (	14)52,766,482	1759	WW2DX(	'12)19,167,080	1373
N	Iulti-Operator Two Transmitter			Iulti-Operator Two Transmitter	
D4C ('15)		1936	K1LZ('10)	)30,393,480	1560
	ulti-Operator Multi-Transmitter			Iulti-Operator Multi-Transmitter	
CN2AA ('	15)121,620,720	2040	NQ4I('14)	)31,335,980	1690
			000 050		000
	CLUB RECORD		QRP REC	ORD WPX (Prefix) REC	URD

Contest Club Finland ('00) .......250,320,141 HC8A ('94) ......7,520,562

#### CONTINENTAL RECORD HOLDERS

14

	AFRIC	4	
1.8	CN2R ('07)	1,613,955	399
3.5	CN2R ('06)	11,849,076	894
7.0	EF9R ('17)		1080
14	CN2R ('08)	15,778,840	1199
21	CN2R ('11)	20,704,164	1443
28	D4C ('14)	17,885,556	1404
AB	CN2R ('13)	30,683,396	1443
	ASIA		
1.8	*YMØT ('05)	486,846	222
3.5	H2T ('10)		534
7.0	5B/KC2TIZ ('10)		754
14	P33W ('10)		1030
21	4L8A ('15)		1053
28	H22H ('00)		931
AB	P33W ('18)	19,192,626	1173
	EUROP	E	
1.8	SN3R ('07)		434
3.5	EI7M ('10)		731
7.0	TM6M ('17)		1135
14	SJ2W ('16)		1309
21	CR6T ('14)		1312
28	GM7V ('00)		982
AB	CQ8X ('14)	20,759,765	1385
	NORTH AME	ERICA	
1.8	VY2ZM ('19)		390
3.5	ZF1A ('08)		462
7.0	TI5W ('17)	10,829,850	930

14 21 28

AB

18

3.5

7.0

ZFTA (108)	2,269,344	462
TI5W ('17)	10,829,850	930
KP2A ('95)	7,088,976	912
VP2EH ('11)	14,899,185	1305
KP2A ('00)	11,385,710	1046
8P5A ('16)	27,306,666	1422

#### OCEANIA

KH6ND ('07)26,432	59
WH7Z ('03)1,208,900	308
ZL3A ('08)8,200,800	816

14	KH6ND ('03)	6,493,727	887
21	AH7DX ('00)	7,645,990	890
28	TXØDX ('00)	12,049,422	847
AB	KH7X ('11)	20,676,524	1244
	SOUTH AN	IERICA	
1.8	HK1KYR ('10)	44,814	77
3.5	YW4D ('17)	2,901,840	535
7.0	HK1T ('12)	14,512,230	1062
14	HK1X ('11)	13,783,532	12599
21	ZX5J ('10)	16,746,977	1369
28	PX5E ('14)	17,817,600	1450
AB	HC8A ('01)	25,180,199	1199
MULTI-	OPERATOR SIN	GLE TRANSMI	TTER
AF	D4C ('15)	86,622,448	1936
AS	P33W ('14)	43,457,520	1720
EU	EI7M ('14)	31,158,736	1648
NA	VP2EC ('92)		1115
OC	KH7X ('12)	19,038,120	1180
SA	HC8A ('93)	32,502,677	1107
MULT	I-OPERATOR TV	VO TRANSMIT	<b>FER</b>
AF	EB8AH ('11)	68,072,520	1765
AS	UP2L ('14)	46,044,068	1748
EU	OL4A ('14)	36,280,074	1774
NA	WP2Z ('14)	34,886,363	1607

ES9C ('14) .....2057

OC	KH7X ('12)	19,038,120	1180
SA	HC8A ('93)	32,502,677	1107
м	ILTI-OPERATOR T		ED

AF	Е ВОАП ( 11)		1705	
AS	UP2L ('14)	.46,044,068	1748	
EU	OL4A ('14)	.36,280,074	1774	
NA	WP2Z ('14)	.34,886,363	1607	
OC	VK4KW ('11)	.26,528,482	1369	
SA	PJ4Z ('12)	.57,741,867	1641	

#### MULTI-OPERATOR MULTI-TRANSMITTER

AF	CN2AA ('15)	121,620,720	2040
AS	P3A ('00)	53,554,592	1456
EU	ES9C ('14)	73,120,179	205
NA	KL7RA ('14)	42,051,076	1763
OC	KH7R ('02)	32,806,032	1304
SA	HK1NA ('13)	65,361,128	1687

\*Low Power