

# Results of the 2012 CQ WW WPX CW Contest

BY RANDY THOMPSON,\* K5ZD

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*"Yes, dear, I'll be there soon..." "Pull weeds?" "Sure. Just a few more minutes". Closed the shack door, called CQ and 30 hours later found over 1300 Qs and 2M+ points in the log.*

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—AK6M

**A**fter two years of poor conditions, the 33rd edition of the CQ WPX CW Contest on May 26–27, 2012 finally hit the propagation jackpot. It was epic! While we don't advocate ignoring your family, it is easy to lose track of time when conditions and activity levels are this good. The words most commonly used post contest to describe conditions were "awesome," "amazing," "incredible." Pick one.

The highlight was near around-the-clock conditions on 15 meters. Many reported that it was the best they had ever heard the band. According to Zlatko, 9A2EU, "15 was king, opened late into night. One could work all continents in less than 5 minutes." Alan, KO7X, put it well: "What can you say about the conditions on 15 meters except WOW. I'll say it backwards—WOW."

John, K6AM, wonders if it was all real: "I have *never* heard 15 meters this good. Loud signals were coming in from all over the world late into the early morning. Seemed like some sort of dream." Dave, K5GN, shared the feeling: "Saturday was like being connected to the old Dr. DX [computer] game, choose a band, any band, and work the world."

Great conditions benefit the small stations the most. Jim, K6OK, was pleased with his results. "15 meters was excellent. Considering I'm bare-foot with low dipoles on the West Coast, it's not often I get DL, G, F, etc., in my log, so it was exciting to work a few." NI7R in Arizona offered another example: "The antenna system consisted of a portable screwdriver antenna with a 12-foot whip added and an aluminum ladder for counterpoise. I was able to work hundreds of Europe stations with ease." When conditions allow low power and small antennas to succeed, that increases activity and the scores go up for everyone.

Bill, K2PO, operated low power from Oregon as AD7JP. "My score is 2.5x better than last year, with the same gear and same time in chair, so good propagation does wonders." Perennial QRP specialist Gary, N7IR, also took advantage of the conditions. "This is my highest score in this contest. The last time we had conditions like this was in 1999 when I set my previous W7 record score..."

Numerous operators reported having to revise their goals midway through contest. The multi-multi team at NQ4I had that experience. "We passed the USA record score and mult score on Sunday morning at 1200Z. .. leaving us with 12 hours to pile on to the record score." The gang at LZ9W did the same: "We knew this contest would be different from the last two years when we reached our record prefix number from 2011 of 1395 just after 25 hours in the contest and when we reached our QSO final number from 2011 at 1320Z on Sunday."

Larry, K5OT, joked, "...the sounds I heard on my drive home were worldwide WPX records crashing." He was right! Just about every all-band or multi-op category saw new record scores. In many cases due to 10–20% increases in the number of prefix multipliers worked, and prefixes are a big part of what makes the WPX Contest unique.

The top overall prefix collector was the multi-multi team at 9A1A who finished with 1603. This was well above the record of 1365 set by LZ9W last year. The highest prefix count among single operator stations was 1203 by S59ABC operating in the Assisted category. There were 158 entries that exceeded 1000 prefix multipliers in the contest. Compare that to four years ago when just 38 did it!

We thank the following stations that helped provide some unusual call signs and exciting multipliers in our logs: 4G0LD, 5C5W, 6O3A, 6M0NR, 8J4VLP/4, D70LW, D73A, DB50EFA, EM100RU, GQ8SRS, GT8IOM, HB75FG, L33M, L53GO, LZ109RF, LZ2012KM, LZ907SKB, OF150M, OG300J, OM100IG, OM90ZSE, PW0F, SN10SLO, SW8A,

TX8CW, V6A, and XP2I. The unusual call sign SF0530COH is used by Ove, SM0PSO, to annually commemorate the organ donor that made his heart transplant possible.

## Single Operator All Band High Power

There were 592 logs received in the Single-Operator All Band High Power category. Over 100 of them operated the full 36 hours permitted. For the fourth year in a row, the category winner was EF8M, operated by Valery, RD3A. Valery set a new world record. Jozef, OM3GI, took a trip to Madeira to operate CQ3B for second place. When W6LD was unable to make the trip to Aruba, Andy, AE6Y, bought some last-minute plane tickets to operate as P49Y. His excellent score not only won a plaque for South America, but also gave him the top combined score for the SSB and CW events. That's taking advantage of opportunity! Andy, UJ0JM, in fourth, set a new record for Asia, and Ken, K6LA, operated VY2TT for a new North American record. Great to see four different continents represented among the top five scores.



Fred, KH7Y, operating 15 meters on Saturday evening at KH6LC.



Holders of the new Oceania record for Multi-Two: Lloyd, KH6LC (with Ginger the Cockatoo), Fred, KH7Y, Rob, NH6V, and Curt, AH6RE.

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## 2012 WPX CW WORLD TOP SCORES

### SINGLE OPERATOR HIGH POWER

ALL BANDS	
EF8M (RD3A)	19,538,250
C03B (OM3GI)	18,596,400
P49Y (AE6Y)	15,309,075
4LOA (UJ0JM)	14,683,773
VY2TT (K6LA)	14,249,235
6V7S (RK4FF)	13,469,784
PT5T (PY2NDX)	12,393,085
ST2AR (S53R)	12,273,684
UP2L (UA9BA)	12,043,790
TC2X (OH2PM)	11,979,738

14 MHz	
*S6SW (CN8KD)	2,463,916
*OM0WR	2,095,899
*RX9AF	1,882,976
*UA9LAO	1,762,794
*NT2A	1,670,310
*YT2AAA	1,612,925
*RW0AJ	1,461,632
*UA2FL	1,313,148
*UN6LN	1,260,721
*WA1FCN/4	1,182,708

1.8 MHz	
LY7M	256,224
HA5NB	136,710
SP9ATE	81,260
SV3RF	54,102
S53XX	43,550
DG00KW	18,816

21 MHz	
UW5M (UT7MA)	885,446
YO5AIR	276,850
KW7R/4	255,475
RD9XC	220,864
G3LHU	213,120
VE3GTC	194,560
VE6WQ	174,876

28 MHz	
WN1GIV/4 (N4BP)	856,996
9A2U (9A3ZA)	718,704
ZM3T (W3SE)	649,980
EA5YU	107,802
EA5DM	10,921

28 MHz	
PW5D (PY2ZXU)	6,137,903
AY5F (LU5FC)	4,689,416
XQ1KZ	3,262,822
ED3T (EA3AKY)	1,357,160
LU7HN	859,880
WN1GIV/4 (N4BP)	856,996
NR5M (N5NU)	526,948
UR3LO	399,492
JAGWIF	348,874
GM1F	315,594

7 MHz	
*DK2FG	1,189,992
*OM5WV	1,135,332
*OM3ZWW	1,069,856
*W2EG	955,164
*HA3MU	849,828
*SM5MX	782,384
*DL5KUD	765,347
*UJ9JH	604,816
*IV3AZV	581,694
*KH2D/NG4	550,550

SINGLE OPERATOR ASSISTED LOW POWER ALL BANDS	
*4X0W (K1VR)	6,550,680
*RW0A (RA0AM)	5,909,760
*V26E (AB2E)	5,442,462
*RA9AP	4,942,115
*RV9UP	4,903,710
*DM0B (DK9IP)	4,625,836
*SP1NY	4,494,690
*ES6Q (ES5RY)	4,392,149
*S50XX	4,281,570
*YU2A	4,260,060

14 MHz	
YP0CW (Y06EX)	817,075
YU1LM	439,410
UA6LCJ	405,680
WB8JUI	184,408
LZ1VB	160,563
VA3AMX	107,115
EA7AAW	98,306

21 MHz	
A65BD (G4BWP)	5,931,486
VE10P	3,473,160
KZ7X (K6LL)	3,421,464
ZC4LI	2,467,470
KE1B/6	2,441,250
EA5FD	1,334,576

21 MHz	
CR1X (OH2BH)	7,293,280
ZX5J (AI6V)	6,831,684
CS2C (OK1RF)	6,806,436
A65BD (G4BWP)	5,931,486
UN9GD	5,644,480
9A5Y (9A3NM)	5,577,561
LY80	5,108,431
E73W	4,908,335
OH10X (OH6KZP)	4,813,710
YU1KX	4,397,040

3.5 MHz	
*LY3CW	475,993
*HA4FV	409,199
*YU1ED	374,361
*GW70 (GW3SOX)	354,192
*ER100	318,052
*YR6M (Y06MT)	313,177
*Z3ZY (Z3ZAJA)	275,713
*BS0DY	198,968
*LZ1FY	197,955
*UT2LU	172,974

28 MHz	
*PR3A (PY3OZ)	1,854,736
*UJ7J (UJ1AZ)	1,009,375
*YR8T (Y08TT)	429,134
*DH8DA	350,721
*B7NWF	240,255
*Y0ZLH	170,181
*UT2IV	103,739
*E14CF	98,780
*YU8NU	93,786
*KP2BH	84,830

7 MHz	
YU1WC	955,747
9A3JH	953,061
S57D	692,928
DR2Q (DL8MBS)	428,050
OK5WF	364,980
K3TW/4	260,435
OL4W (OK1IF)	128,570

14 MHz	
9A4WY	3,240,882
N2PP	3,210,697
J9CWCJ	1,339,566
J13FC	1,111,936
YL2KF	970,148
W4CU	590,934

14 MHz	
4Z4AK (UT7DK)	5,177,095
DA2C (DK3DM)	4,707,164
UW2M (UR0MC)	4,432,269
YU3A (YU1XX)	3,967,704
K9NW	3,277,140
EA3GXJ	3,275,776
RC0F	3,187,212
YT1A	2,757,260
N2MM	2,743,785
RC5A	2,715,660

1.8 MHz	
*UX5NQ	62,088
*OK2SAR	61,858
*OK1JOK	57,304
*YL3DX	31,188
*OK1CZ	28,860
*HA2EOD	26,964
*RM5Z	19,992
*Y09RIJ	12,150

21 MHz	
*YT2B	2,721,020
*PY9MM	1,779,996
*SP3POZ (SP3PL)	1,245,740
*Z3ZF	940,200
*YT5N	908,600
*OM8DD	862,680
*JR1BTG	854,388
*UX1AA	768,660
*LZ4AE	758,940
*Y03KIA	737,120

14 MHz	
*XP2I (OZ1BI)	2,711,492
*SK3W (SM5IMD)	2,618,616
*SP5GRM	2,036,700
*RO6A	1,990,194
*S54X	1,628,396
*OK6RA	1,582,674
*R29AN	1,420,540
*UA3RF	1,371,010
*DP3D (DK3KD)	1,306,070
*UZ5I (YU6IM)	1,295,272

1.8 MHz	
P33W	28,268,697
RF9C	22,625,001
KP2M	18,213,104
ES9C	17,760,738
RU1A	16,938,306
RT4F	15,613,507
KM3T/1	15,311,340
P40H	15,209,220
OE3K	14,880,748
DM6V	13,499,640

7 MHz	
YT8A (YU1EA)	5,037,818
OL3Z (OK1HMP)	4,049,730
UA2KW (UA2FB)	3,804,345
E71A	3,796,192
NN1N	3,592,625
OK1Z	2,755,662
S57Z	2,466,771
EA6SX	2,373,630
IZ1GAR	2,323,308
YU3FT	2,273,304

SINGLE OPERATOR ASSISTED HIGH POWER ALL BANDS	
6V3W (UT5UDX)	12,916,100
CR3L (DD2ML)	11,517,388
TC7C (R3GM)	10,406,232
AT3A (A71BX)	10,392,640
SN70	10,123,008
9K2RA (9K2RR)	10,055,232
NY3A	9,923,563
NP4Z	9,717,828
S59ABC (S51DS)	9,052,575
S50C (S53CC)	8,411,040

14 MHz	
*YQ50 (Y050HO)	1,938,244
*DK8ZZ	1,834,164
*UN9LU	1,450,104
*YT8T	1,304,788
*LZ1DNY	1,141,875
*GO1N (G3MZV)	1,118,430
*DF8AE	680,208
*AB1J	497,536
*DL9NEI	341,658
*RU9AC	258,510

MULTI-OPERATOR SINGLE TRANSMITTER	
P33W	28,268,697
RF9C	22,625,001
KP2M	18,213,104
ES9C	17,760,738
RU1A	16,938,306
RT4F	15,613,507
KM3T/1	15,311,340
P40H	15,209,220
OE3K	14,880,748
DM6V	13,499,640

28 MHz	
9A2AJ	189,987
HA5NB	136,710
DG00KW	18,816

3.5 MHz	
LY5W	728,739
SP3GTS	691,748
OH6MW	658,126
V2EW	529,368
S58WW	455,952
PR5B (PY2LSM)	408,250
UX1VT	377,363
UT8IT	362,340
W3BGN	335,400
F5VMN	321,126

28 MHz	
R7LV	1,075,860
HG0R (HA0NAR)	786,511
9A2U (9A3ZA)	718,704
ZM3T (W3SE)	649,980
Y79A	633,888
SV5DKL	523,422
OK1CF	298,116
K6BDX	251,550
UT11A	246,543
K2SSS (E78VWV)	233,948

7 MHz	
*YQ50 (Y050HO)	1,938,244
*DK8ZZ	1,834,164
*UN9LU	1,450,104
*YT8T	1,304,788
*LZ1DNY	1,141,875
*GO1N (G3MZV)	1,118,430
*DF8AE	680,208
*AB1J	497,536
*DL9NEI	341,658
*RU9AC	258,510

MULTI-OPERATOR TWO-TRANSMITTER	
PW7T	34,156,451
NV3L	21,964,974
OL4A	21,696,112
IR9Y	21,056,688
KD4D/3	20,661,360
NK7U	18,816,965
HG7T	18,425,974
D04W	17,627,799
KH6LC	17,095,460
DM8D	16,781,476

TRIBANDER/SINGLE-ELEMENT LOW POWER ALL BANDS	
*SP1NY	4,494,690
*YU2A	4,260,060
*RT9S	4,003,872
*M5E (G0CKV)	3,965,460
*Z71SJ	3,488,758
ER3DX	3,386,910
*RV9C	3,376,296
DL3YM	3,196,578
*OM5X (OM5XX)	3,061,348
*ER6A (ER1LW)	2,979,732

1.8 MHz	
UT5UGR	191,262
9A2AJ	189,987
OK1CW	157,508
EW1D	130,834
Y05AJR	94,518
OG9W (OH2BCI)	57,183
JR5JAO	5,187
TA3J	1,536

21 MHz	
3Z2X (SP2FWC)	4,993,905
S50R	4,007,745
SP4Z	4,007,385
YL60	3,599,040
VE10P	3,473,160
ZM4G (ZL2IFB)	3,458,873
KZ7X (K6LL)	3,421,464
OK1DX	3,157,728
VE3CX	2,757,604
JN4MM0	2,651,560

3.5 MHz	
*9A3R	631,350
*LY7Z (LY2TA)	575,943
*S56CW	573,463
*S53N (S58G)	472,144
*RU4CS	269,082
*RA7Y	161,210
*R6YV	158,364
*UR5HQ	110,445
EA3AKA	73,255
*DL7UIO	52,206

MULTI-OPERATOR MULTI-TRANSMITTER	
HK1NA	49,577,272
DR1A	34,790,058
9A1A	33,826,506
LZ9W	33,442,851
NR4M	26,785,984
NQ4I	25,677,568
KL7RA	23,303,132
HG1A	21,484,358
LX7A	19,809,335
NR60	13,779,014

28 MHz	
*C4Z (5B4AIZ)	1,381,935
*HZ1PS	259,806
*S54A	211,588
*4X0A (4X1VF)	196,588
*R7MC	96,559
*HQ2N (JA6WFM)	86,036

SINGLE OPERATOR LOW POWER ALL BANDS	
*PJ2T (W19WI)	8,228,540
*3V8BB (KF5EY)	7,749,817
*CR3A (OM3RM)	7,247,554
*D3AA	7,165,173
*YT3M (YT6W)	6,625,460
*LZ8E (LZ2BE)	5,914,028
*W3EF	5,704,362
*LY1R (LY9A)	5,457,789
*PS2T (PY2NY)	5,042,730
*N5AW	4,986,550

14 MHz	
SO2R	5,011,677
DR1D (DL9EE)	4,627,134
HA8JV	4,481,295
YT0Z (YU1ZZ)	4,401,978
YT2T	4,051,808
SO4M (SP5UAF)	3,747,840
UZ4I (UX6IZ)	3,650,958
YT4W (YU1DW)	3,341,260
944WY	3,240,882
N2PP	3,210,697

1.8 MHz	
*IK0BX	127,233
*E7FEZ	93,758
*UZ5A	86,636
*SP1BK	79,234
*HA8E	18,096
*YO2AQB	15,168
*EU2EU	12,045
*HA0NAR	11,424

## Logging Accuracy

It was another record year for log submissions with 4323 received for WPX CW 2012. The submitted logs contained 2,835,247 total QSOs. After all the log checking, we found 16,889 call signs. This represents the true number of stations active in the contest, whether they made one QSO or a thousand.

There were 22,102 unique call signs. A unique call is one that appears in only one log. History has shown that many of these call signs are the result of copying errors. Between the computer checking and some manual investigation by the log-checking team, we were able to confirm 83.8% of these were indeed errors. This extra level of checking definitely rewards those stations that copy and log information accurately.

Even with this high level of checking, 1087 entries, or about 30%, experienced score reductions of 5% or less. The median score reduction was 9.4%. That's a bit higher than most contests, but is a factor of WPX having so many multipliers. Everyone who submitted a log should have received an e-mail with their log-checking report. If not, please send a request to <director@cqwp.com>.

There were 187 stations that produced logs with no score reductions. The top "golden" logs (with number of QSOs) are: OK5TFC (408), UB6ACR (346), OK1FKD (335), SM7CIL (277), AB4GG (209), VE2KOT (196), RF9T (191), IK0FUX (157), AE9F6 (130), and DJ2QV (124).

It was virtually the same on the transmitting side, with 185 stations that caused no errors in other logs. These golden transmitters are: W6XR/2 (185), DL1KUR (141), F5LCU (113), HA8BE (102), VE1DT (99), JF3AYR (95), KJ6MBW (95), KR7C/Ø (89), LY5K (75), EA5HRB (72).

The top European score was CR6K operated by Filipe, CT1ILT. He was just ahead of Ranko, 4O3A. Both made over 1500 QSOs on 15 meters! In the end, it was Filipe's greater number of QSOs outside Europe that earned him the victory.

Special mention should be made of the fantastic Oceania record score made by Dave, N2NL, operating as NH2T (or NS2T as it is often mistakenly copied). Dave is a member of the Coast Guard serving in Guam and this may have been his last opportunity for WPX CW before shipping off to another port. The excellent propagation enabled Dave to make more than 1100 contacts with Europe! Comments from many small European entries remarked on what great ears NH2T had! Dave's secret is 1000-foot Beverage listening antennas strung out into the jungle around his house.

The race for top USA score was one of the closest finishes ever in DX contesting! The top eight scores all broke the existing USA record of 9.5-million points (see table). In the equivalent of a photo finish, it was Alex, LZ4AX, operating from KC3R in Pennsylvania ahead of Admiral Scott, KØDQ, operating from WW1WW in New Hampshire. The difference was just 17,196 points (or 0.153%)! It was so close we had to review some of the log-checking algorithms to make sure we computed the correct order of finish. Special mention goes to Kevin, N5DX, who was operating as NN5J from Arkansas. He just couldn't match the DX con-

## 2012 WPX CW TROPHY WINNERS AND DONORS

### SINGLE OPERATOR ALL BAND

**WORLD:** Steve Bolia, N8BJQ Trophy. Won by: **EF8M** operated by Valery Komarov, RD3A  
**WORLD Low Power:** Caribbean Contesting Consortium Trophy. Won by: **PJ2T** operated by Jim Fitzpatrick, W9W0  
**WORLD QRP:** Bill Parker, W8QZA Trophy. Won by: **OK3C** operated by Ludek Odehnal, OK2ZC  
**USA:** Dennis Motschenbacher, K7BV Trophy. Won by: **KC3R** operated by Alexander Avramov LZ4AX  
**USA Low Power:** Ken Boasai, N2ZN Trophy. Won by: **Maury Peiperl, W3EF**  
**USA QRP:** John T. Laney, K4BAI Trophy. Won by: **Julius Fazekas, N2WN/4**  
**USA Zone 3 High Power:** Northern California Contest Club Trophy. Won by: **KR70/6** operated by Bob Wilson, N6TV  
**USA Zone 3 Low Power:** Arizona Outlaws Contest Club Trophy. Won by: **AD7JP** operated by Bill Conwell, K2PO  
**USA Zone 4 High Power:** Society of Midwest Contesters Trophy. Awarded to: **NN5J**, operated by Kevin Stockton, N5DX  
**USA Zone 4 Low Power:** Society of Midwest Contesters Trophy. Won by: **Marv Bloomquist, N5AW**  
**USA Zone 5 High Power:** Paul Obert, K8PO Trophy. Awarded to: **Scott Redd, KØDQ/1**  
**EUROPE High Power:** Ivo Pezer, 5B4ADA/9A3A trophy. Won by: **CR6K** operated by Filipe Monteiro Lopes, CT1ILT  
**EUROPE Low Power:** Vitor Santos Trophy. Won by: **YT3M** operated by Mladen Bogdanov, YT6W  
**EUROPE QRP:** Bruce Olney WY7N Trophy. Awarded to: **OH5Z** operated by Kari Termonen, OH5WH  
**AFRICA:** Chris Terkla, N1XS Trophy. Awarded to: **CQ3B** operated by Jozef Lang, OM3GI  
**ASIA:** Rick Tavan, N6XI Trophy. Won by: **4LØA** operated by Andy Kazantsev, UØJMJ  
**NORTH AMERICA:** Louisiana Contest Club Trophy. Won by: **Laurent Bellay, FU5BH**  
**NORTH AMERICA Low Power:** Dick Green, WC1M Trophy. Won by: **Eduardo Somoano, CØ8LY**  
**NORTH AMERICA QRP:** Dale Martin, KG5U Trophy. Won by: **No entrant**  
**OCEANIA High Power:** Lloyd Cabral, KH6LC Trophy. Won by: **NH2T** operated by David Mueller, N2NL  
**OCEANIA Low Power:** Pacific DXers Trophy. Won by: **Holger Hannemann, ZL3IO**  
**SOUTH AMERICA:** David Kopacz, KY1V Trophy. Won by: **P49Y** operated by Andrew Faber, AE6Y  
**SOUTHERN CONE (CE, CX, LU) Low Power:** LU Contest Group Trophy. Won by: **L53GO** operated by Edmundo Gabriel Drago, LU5FZ  
**CANADA High Power:** Radio Amateurs of Canada Trophy. Won by: **VY2TT** operated by Ken Widelitz, K6LA  
**CANADA Low Power:** Contest Club Ontario Trophy. Won by: **Dan M. Lazar, VE6EX**  
**CHINA:** LZ9W Contest Team Trophy. Won by: **He Jun, BH4RQU**

### SINGLE OPERATOR, SINGLE BAND

**WORLD 28 MHz:** Steve Hodgson, ZC4LI Trophy. Won by: **PW5D** operated by Thomas Carlsson, PY2ZXU  
**WORLD 28 MHz Low Power:** Six Stars Contest Station LS1D Trophy. Won by: **C4Z** operated by Brian Coyne, 5B4AIZ  
**WORLD 21 MHz:** Andrei Schislenok, NP3D Trophy. Won by: **CR1X** operated Martti Laine, OH2BH  
**WORLD 14 MHz:** Gene Walsh, N2AA Trophy. Won by: **4Z4AK** operated by Alexander Krayz, UT7DK  
**WORLD 7 MHz:** 6Y1V Contest Station Trophy. Won by: **YT8A** operated by Dusan Ceha, YU1EA  
**WORLD 7 MHz Low Power:** Neal Campbell, K3NC Trophy. Won by: **Peter Schuebeler, DK2FG**  
**WORLD 3.5 MHz:** Ranko Boca, 4O3A Trophy. Won by: **Saulius Zalnerauskas, LY5W**  
**WORLD 1.8 MHz:** Dusko Dumanovic, ZL3WW Trophy. Won by: **Dimitry Stashuk, UT5UGR**  
**USA 28 MHz:** Paul Beringer, NG7Z Trophy. Won by: **WN1GIV/4** operated by Bob Patten, N4BP  
**USA 21 MHz:** Charlie Wooten, NF4ATrophy. Won by: **WB5AAR** operated by Ralph Bowen, N5RZ  
**USA 14 MHz:** Kansas City DX Club Trophy. Won by: **Mike Tessmer, K9NW**  
**USA 7 MHz:** Darin Divinia, WG5J Trophy. Won by: **Dave Patton, NN1N**  
**USA 3.5 MHz:** Wes Printz, W3SE/ZL3TE Trophy. Won by: **Steven Sussman, W3BGN**  
**EUROPE 28 MHz:** SKY Contest Club Trophy. Won by: **ED3T** operated by Josep M Gene, EA3AKY  
**EUROPE 21 MHz:** SKY Contest Club Trophy. Awarded to: **CS2C** operated by Jiri Pesta, OK1RF  
**EUROPE 14 MHz:** SKY Contest Club Trophy. Won by: **DA2C** operated by Heiko Marschollek, DK3DM  
**EUROPE 7 MHz:** SKY Contest Club Trophy. Awarded to: **OL3Z** operated by Martin Prokop, OK1HMP  
**EUROPE 3.5 MHz:** SKY Contest Club Trophy. Awarded to: **Zenon Swist, SP3GTS**  
**EUROPE 1.8 MHz High Power:** SKY Contest Club Trophy. Awarded to: **Tomislav Polak, 9A2AJ**

### SINGLE OPERATOR ASSISTED

**WORLD:** D4C Station Trophy. Won by: **6Y3W** operated by Sergey Rebrov, UT5UDX  
**USA:** Ron Sigmonti, N3RS Trophy. Won by: **Steve Sluz, NY3A**  
**EUROPE:** Martin Huml, OL5Y Trophy. Won by: **SN7Q** operated by Krzysztof Sobon, SP7GIQ  
**CANADA:** Anthony Ratajczak, VE1ZA Trophy. Won By: **VC2W** operated by Victor Androsov, VA2WDQ

### OVERLAY CATEGORIES

**WORLD Tribander/Single-Element:** Helmut Mueller, DF7ZS Trophy. Won by: **ST2AR** operated by Robert Kasca, S53R  
**USA Tribander/Single-Element:** Paul Newberry, N4PN Trophy. Won by: **David Llyod, K3EL/2**  
**EUROPE Tribander/Single-Element:** Matija Brodnik, S53MM Trophy. Won by: **S50C** operated by Boris Hrovat, S53CC  
**WORLD Rookie:** Val Edwards W8KIC Memorial (K3LR sponsor) Trophy. Won by: **UA5A** operated by Oleg Prelovsky, RA3AKT  
**NORTH AMERICA Rookie:** Chris Kantarjiev, K6DBG Trophy. Won by: **Michael Adams, AB10D**

### MULTI-OPERATOR, SINGLE-TRANSMITTER

**WORLD:** Steve Miller, N0SM Trophy. Won by: **P33W** operated by RU4HP, UA2FZ, RV1AW, RW4WR, RA3AAU  
**USA:** Phil Allardice, KT3Y Trophy. Won by: **KM3T/1** operated by DL1MGB, DL5LYM, KC1XX, KM3T, N1KWF, W1FV  
**AFRICA:** Rhein Ruhr DX Association Trophy. Won by: **No entry.**  
**ASIA:** W2MIG Memorial (NX7TT Sponsor) Trophy. Awarded to: **RF9C** operated by R9DX, RA9CMO, UA9CDC, UA9CDV, UA9CIR  
**EUROPE:** Tonno Vahk, ES5TV Trophy. Won by: **ES9C** operated by YL3DW, YL1ZF, YL2GQT, ES2DW, ES2NA, ES5JR, ES7GN, ES5GP, ES5TV

### MULTI-OPERATOR, TWO-TRANSMITTER

**WORLD:** UA1DZ Memorial Trophy (W3UA Sponsor). Won by: **PW7T** operated by PT7AA, PT7AK, PT7CG, PT7WA, PY1NX, PY7RP, PY7XC, PY8AZT  
**USA:** Florida Contest Group Trophy. Won by: **NN3L** operated by N3RD, N3RS, W2GD, W7CT, W8FJ  
**AFRICA:** Walter Skudlarek, DJ6QT Trophy. Won by: **No entry.**  
**EUROPE:** Tom Georgens, W2SC Trophy. Won by: **OL4A** operated by OK1DO, OK1FFU, OK1RI, OK8WW, OM5AW, OM6NM

### MULTI-OPERATOR, MULTI-TRANSMITTER

**WORLD:** Steve Merchant, K6AW Trophy. Won by: **HK1NA** operated by HK1R, HK1T, HK1MW, HK1N, HK1AA, HK1X, HK3TU, LU8EOT  
**USA:** Jim Reiser, AD1C Trophy. Won by: **NR4M** operated by K4EC, K4ZW, K7SV, N2YO, N3UA, N4ZR, NR4M, ON9CC, PB2T/NB2T, PC5A  
**EUROPE:** Jeff Demers, N1SNB Trophy. Won by: **DR1A** operated by DB5JG, DK2CX, DL2HBX, DL2JRM, DL3BPC, DL3DXX, DL5CW, DL6FLB, DL8DYC, DL8LAS, DL8WPX, DL9DRA  
**CHINA:** Andrey Sachkov, LZ2HM Trophy. Won by: **B1Z** operated by BA1AAX, BA1RB, BA1KW, BD1BYV, BG3PQG

### CONTEST EXPEDITION

**WORLD:** Phil Goetz, N6ZZ Memorial Trophy (Paul Goetz Sponsor). Won by: **TX8CW** operated by Jacky Calvo, F2CW/ZL3CW

### COMBINED AWARDS

**WORLD Single Operator Combined Score:** (SSB and CW) Yuri Blarovich, K3BU Trophy. Won by: **Andrew L. Faber, AE6Y**  
**USA Single Operator Combined Score:** (SSB and CW) Bill Fisher W4AN Memorial (KM3T Sponsor). Won by: **Kevin Stockton, N5DX**  
**WORLD Single Operator Combined Prefixes:** Norm Koch, WN5N Memorial by Gail Sheehan, K2RED Trophy. Won by: **Filipe Lopes, CT1ILT** (2420 total)  
**CQ WPX Contest Triathlon Award:** (Single Operator Combined Score on RTTY, SSB, and CW). Rudy Bakalov, N2WQ Trophy. Won by: **Lucas Maiorow, LU1FAM** (24,981,565 points, 8553 QSOs)  
**WORLD Club Score:** CQ Magazine trophy. Won by: **Bavarian Contest Club**

tacts on 40 and 80 meters of the northeastern stations.

## Single Operator All Band Low Power

The most popular entry category is Single Operator All Bands Low Power with 1169 logs submitted. Once again it was a station along the north coast of South America that took the win. Looking for a change of pace, Jim, W19WI, decided to forgo his normal high-power effort at PJ2T to try low power. He focused on 40 meters the first night to take advantage of the double points. It was a smart move and enabled him to finish just ahead of a pack of three African challengers that included Ashraaf as 3V8BB in Tunisia, Tibor, OM3RM, at CR3A in Madeira, and Mike D3AA in Angola. Fifth place was between a pair of Europeans. Mladen, YT6W, was behind the call-sign of YT3M, and Boyan, LZ2BE, was operating from LZ8E. Mladen was the only low-power entry to exceed 1000 prefixes.

Just as we saw in the high-power division, the competition for top USA score required a record-setting effort. Five stations broke the existing USA record of 4.1-million points that had been set back in 2002. There was no doubt about the winner with Maury, W3EF, well ahead of the competition. This was only Maury's third attempt at WPX CW, but he demonstrated that he fully understands the strategy: "For me this contest is all about 6-pointers on the run radio and multipliers (only) on the mult radio. That simple formula kept me focused and going all weekend." Second place went to Marv, N5AW, a regular in the low-power top ten of DX contests. Marv had a clear goal: "I went in hoping to break the 5th call area low-power record of 2.5 Meg. Never in my wildest dreams did I think I would double that score and also break the USA low-power record by more than a million points!" Five-time winner NV1N (operated by Ed, N1UR) finished in third place, just 45k points back.

## Single Operator QRP

There were 163 operators who braved the QRM on all bands while running 5 watts or less. The champion was OK3C operated by Ludek, OK2ZC. Ludek used a single radio and a lot of patience to work 1420 contacts and 730 multipliers. Very impressive! OH5Z and DL1II were



The team behind the fourth place multi-two score of IR9Y. Left to right: IT9MUO, IK1HJS, IK3QAR, IT9ZGY, IT9VDQ, IT9RGY, IT9EJW, IT9BLB; seated left to right: IK7JWY, IT9GAC, I2GPT.

close behind. The top USA score was by Julius, N2WN/4. Julius now owns the USA record that had been held by K3WW since 2001.

## Single Operator Assisted

The Assisted category continues to grow in popularity and competitiveness. It's not just about chasing DX Cluster spots anymore! We had 420 entries in the high-power all-band category. Sergey, UT5UDX, visited Jamaica to key 6Y3M to the top spot and a new world record score. Even with a 4-hour power outage he had the highest QSO total of anyone in the category. Another traveling op was Ulli, DD2ML, operating from CR3L to finish second. TC7C and A73A had a very close race for third and fourth. The top European score was by Krzysztof, SP7GIQ, operating with his contest call SN7Q. Krzysztof had the second highest multiplier of the Assisted ops. Steve, NY3A, took the top USA honors in a walk over WU3A/1 operated by Gene, W3UA. Gene was rebuilding from a lightning strike and from power-line noise. He vows for a better result next year.

There were 299 entries in the Low Power All Band category, but still plenty of competition.

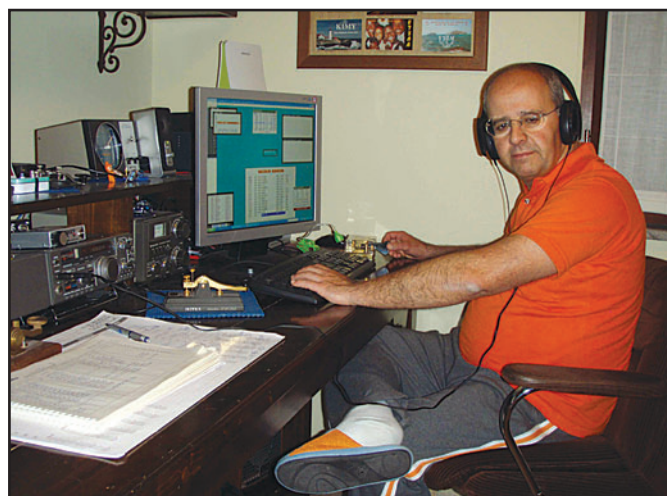
The winner was Fred, K1VR, operating from Israel as 4X0W. It was the accuracy of his log that earned him the win over Leonid, RA0AM, at the controls of RW0A. Asian entries made up 4 of the top 5 spots, with V26E operated by Darrell, AB2DE, breaking in at number 3. It was DM0B (Winfred, DK9IP op) over Mirek, SP1NY, for top score in Europe. Mirek was the only low-power entrant to break the 1000 multiplier mark. Bruce, N1LN, normally welcomes a multi-op to his station, but the team couldn't come together this year. He decided to try Low Power Assisted as a new challenge. The result was the top USA score for the category!

## Single Band Scores

There were 1306 logs submitted in one of the single-band categories. Some, like VA2EW with a new 80-meter 4-square, were testing out a new antenna. Some were looking for new DX counters on a band. Others wanted a category that fit their availability for the weekend. Ed, KN4Y, explained his band choice: "The 10-meter band goes to sleep and gets up when I do; what else can an old man ask for?" Others are chasing wins or records. They carefully



Ian, VE5AE, operated W0AIH with the goal of setting high QRP score for the USA.



Severino, IK2TKX, enjoyed his first try at contesting.

watch the bands with the hope of catching the right wave for a big score. (See "Choices by VE9AA" for one man's experience.)

Of course, not all operations follow the intended plan. CR1X was supposed to have been an all-band effort by Toivo, ES2RR, targeting a new European record. At the last minute Toivo was unable to make the trip. Station host Martti, OH2BH, was on the island and decided to walk up the hill Saturday morning to make some contacts on 15 meters, promising his wife that he would return for dinner. The conditions and QSO rates were too fantastic to stop. After a cold dinner and some rest on Saturday night, Martti was

back for another 12-hour stint on Sunday. The end result was the highest single-band score in the contest and a new all-time record score for 15 meters!

The second and third highest single-band scores were also on 15 meters. Carl, AI6V, operating from ZX5J in Brazil finished ahead of Jiri, OK1RF, operating from CS2C in Portugal. The top USA score was from WB5AAR operated by Ralph, N5RZ. Ralph just missed breaking the USA record set by NU5A way back in 1999.

As usual, 10 meters was dominated by South America. The winner on 10 meters was PW5D operated by Thomas, PY2ZXU, from the super-

## CQ WW WPX CW CONTEST ALL-TIME RECORDS

The contest is held each year on the last full weekend of May. The All-Time Records are updated and published annually. Data shown below is: callsign, year of operation, total score, and number of prefix multipliers.

### WORLD RECORD HOLDERS

Single Operator		
1.8	IH9/OL5Y('98)	341,068 182
3.5	TM5Y('08)	1,983,366 567
7.0	3V8CB('10)	10,758,020 805
14	UP2L('09)	7,928,886 1043
21	CR1X('12)	7,293,280 1154
28	ZX5J('02)	6,787,440 857
AB	EF8M('12)	19,538,250 1195
Assisted	6Y3W('12)	12,916,100 1060

### Multi-Operator Single Transmitter

P33W('12)	28,268,697 1373
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### Multi-Operator Two Transmitter

PW7T('12)	34,156,451 1457
-----------	-----------------

### Multi-Operator Multi-Transmitter

HC8N('99)	54,697,072 1264
-----------	-----------------

### U.S.A. RECORD HOLDERS

Single Operator		
1.8	K1ZM('95)	40,446 107
3.5	W3BGN('08)	641,092 332
7.0	KG1D('05)	3,594,822 651
14	N2NC('06)	5,418,630 915
21	NU5A('99)	4,411,299 789
28	WW4M('01)	2,547,046 674
AB	KC3R('12)	11,264,620 1060
Assisted	NY3A('12)	9,923,563 1079

### Multi-Operator Single Transmitter

KM3T('12)	15,311,340 1254
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### Multi-Operator Two Transmitter

NN3L('12)	21,964,974 1362
-----------	-----------------

### Multi-Operator Multi-Transmitter

NR4M('12)	26,785,984 1426
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### CLUB RECORD

Bavarian Contest Club('12)	441,610,686
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### WPX (Prefix) RECORD

9A1A('12)	1603
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### QRP/p RECORD

P40W('97)	4,018,208
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## CONTINENTAL RECORD HOLDERS

### AFRICA

1.8	IH9/OL5Y('98)	341,068 182
3.5	7X0RY('08)	1,701,260 407
7.0	3V8CB('10)	10,758,020 805
14	6W1SJ('09)	6,755,364 924
21	5X1Z('01)	6,362,352 782
28	ZS4TX('01)	4,602,028 722
AB	EF8M('12)	19,538,250 1195

### ASIA

1.8	4X4NJ('96)	259,420 170
3.5	TA0/Z33F('02)	1,452,552 348
7.0	ZC4LI('10)	4,770,336 632
14	UP2L('09)	7,928,886 1043
21	A45XR('99)	6,557,697 843
28	HZ1AB('02)	3,669,994 659
AB	4L0A('09)	12,560,363 967

### EUROPE

1.8	SN7Q('08)	339,542 307
3.5	TM5Y('08)	1,983,366 567
7.0	CT1JLZ('09)	6,075,936 816
14	4O3T('06)	5,313,554 986
21	CR1X('12)	7,293,280 1154
28	9H0A('01)	3,965,315 841
AB	CR2X('11)	10,498,800 1040

### NORTH AMERICA

1.8	VA1A('99)	103,680 120
3.5	FM5BH('97)	833,490 315
7.0	V26BA('97)	6,227,550 659
14	N2NC('06)	5,418,630 915
21	ZF1A('99)	5,330,129 799
28	FM5GU('01)	2,849,769 621
AB	VY2TT('12)	14,249,235 1155

### OCEANIA

1.8	KH6ND('07)	22,100 50
3.5	KH6ND('09)	596,673 231
7.0	ZM3A('09)	6,437,695 737
14	KH6ND('03)	4,126,690 730
21	KH6ND('99)	6,107,256 813
28	KH6ND('00)	1,523,008 424
AB	NH2T('12)	11,438,122 9991

### SOUTH AMERICA

1.8	HK1MW('11)	18,300 50
3.5	YX3A('89)	1,004,060 305
7.0	LU11V('97)	7,671,456 702
14	HK1X('11)	7,254,266 1006
21	ZX5J('05)	7,061,000 920
28	ZX5J('02)	6,787,440 857
AB	PJ4A('11)	16,272,730 1018

### MULTI-OPERATOR SINGLE TRANSMITTER

AF	CQ3A('11)	26,093,210 1285
AS	P33W('12)	28,268,697 1373
EU	ES9C('12)	17,760,738 1438
NA	8P4A('02)	18,516,960 1056
OC	AH2R('01)	11,541,420 957
SA	P49V('01)	19,760,744 1034

### MULTI-OPERATOR TWO TRANSMITTER

AF	EF8M('07)	33,324,192 1256
AS	C4I('09)	14,632,800 1005
EU	OL4A('12)	21,686,112 1488
NA	NN3L('12)	21,964,974 1362
OC	KH6LC('12)	17,095,460 1198
SA	PW7T('12)	34,156,451 1457

### MULTI-OPERATOR MULTI-TRANSMITTER

AF	CQ3L('10)	28,736,154 1173
AS	A61AJ('02)	42,766,232 1244
EU	DR1A('12)	34,790,058 1598
NA	6Y2A('02)	38,821,328 1274
OC	ZL6QH('04)	16,143,840 1010
SA	HC8N('99)	54,697,072 1264

### QRPp

AF	5Y4FO('92)	649,057 311
AS	ZC4BS('02)	2,515,388 521
EU	LY5A('01)	2,331,414 646
NA	T15X('01)	2,568,470 615
OC	FO8JP('86)	572,131 259
SA	P40W('97)	4,018,208 632

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Paul, W0AIH, welcomes guest operator Ian, VE5AE, by waving the Canadian flag.



Marko, YT2T, operated single band 20 meters.

station of Sergio, PP5JR. Top European score was by Josep, EA3EKY, at ED3T. In the USA, it was Bob, WN1GIV/4, finishing ahead of Jason, N5NU, at NR5M. Echoing the frustration of choice was Brian, 5B4AIZ, the low-power winner on 10 meters. "It was the wrong choice, like being invited to two parties and choosing the quiet boring one whilst there was a humdinger going on down the road."

Would you believe the top 20-meter score in the world was made with a single radio and an A3S tribander? Alexander, UT7DK, accomplished just that while operating from 4Z4AK. Heiko, DK3DM, used the call DA2C to smash the record score for Germany (and come very close to the European record). Mike, K9NW, agonized over whether he should attempt a single-band effort on 15 meters or 20 meters. While he may have missed the great conditions on 15 meters, he took home the top USA score on 20.

Nine of the top ten scores on 40 meters were from Europe. Once again it was Dusan, YU1EA, taking YT8A to the top. Dave, NN1N, used his quad stack of 2-element Yagis to finish fourth overall, just missing the USA record by less than 2000 points!

Summer time and extra daylight in the Northern Hemisphere offer a difficult challenge for the single-band operators on 80 and 160 meters. When conditions on the high bands are so good all night, activity on the low bands goes down.

Sam, LY5W, was frustrated by all of the DX he could hear on 80 meters, but could not get a contact. Even though he was unable to achieve his goal of breaking the Lithuanian record set back in 1996, he did get the overall victory. Zenon, SP3GTS, and Ari, OH6MW, were close behind. The top North American score was by VA2EW testing his antenna. Best from the USA was Steve, W3BGN, doing his usual 80-meter single-band effort.

### Choices by Mike Smith, VE9AA (Single-Op Assisted 10 Meters)

Sometimes you make good choices; sometimes bad. I am here to tell you, this was the former.

I feel like I just ran the Boston Marathon, in my father's oversized pajamas, backwards in old flip-flops. Then I was beat up, thrown in a ditch, and then kicked. Watching the cluster, 15m seems to have been the money band, and I am sure the folks once done there said, "Oh my gosh, what just happened?"

For me, it was more like, "Oh my gosh, why is this happening to me?" Yes, I chose the wrong band. Oops!

A newly installed 10m beam (my only HF beam) was calling my name. "Mike, Mike, you must try me out in the WPX ... those old wires can't make you happy like I can," it said. "I know a nice band you can relax on and actually find a clear frequency to CQ on ... for hours."

I don't even want to look at my rate sheet. It would be downright embarrassing. It's not so much that there were no conditions on 10m, more that everyone was apparently on 15m. Oh dear. I watched the "available mults" window and nearly cried. 15m must have been on fire.

We had virtually no E<sub>s</sub> to the USA and just a spattering of Europe both mornings on the direct path (big guns only) and here and there on backscatter toward Africa the rest of the time. Odd times it would open and I would 2x Italy or 2x Bulgaria, which I was very thankful for.

NB Power thanks me, too. I spent oodles on the power bill this week-end heating the side of the trees that my Yagi is near.

As I type this, it's 2204Z on Sunday and I have just CQ'd about gosh knows how many times, but my last QSO was at 21:55Z. It's normal to CQ for 5, 10, even 20 minutes without so much as one reply. I am sure I have worked everyone who has even barely glanced at 10m in the past two days within earshot of NB, Canada and I can tell you, there weren't many.

Please accept my humble score. I bow my head in shame when I submit it, but I actually worked pretty hard for every since QSO. I feel like I made 3000 Q's, the shape I am in...

*Update:* In the last hour, I was blessed with a couple JA QSOs and a few more EU. I feel refreshed.

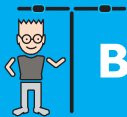
On 160 it was very lonely. Dmitry, UT5UGR, made 381 QSOs and just got past Tomislav, 9A2AJ, by the slim margin of 8 contacts and 2 multipliers.

### Multi-Operator

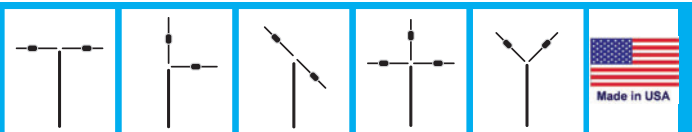
There were 113 entries in the Multi-Operator Single Transmitter category. The P33W operating team of RU4HP, UA2FZ, RV1AW, RW4WR, and RA3AUU used a combination of technical sophistication and operating skill to get the most out of one transmitted signal. While one station is running, a second interlocked radio is interleaving search-and-pounce QSOs. This takes a lot of team work to do smoothly and efficiently. Similar techniques were also employed at ES9C and RU1A in their race for top European score. ES9C got the win and the European record. The top USA score (and new USA record) was from the KC1XX station using the callsign KM3T.

The crew at PW7T keeps improving their station and their skills. They took advantage of the conditions to beat their multi-operator two-Transmitter score from 2011 in the first 24 hours. When the 48 hours was up, they had achieved the winning score and set a new all-time record. Second place went to the callsign NN3L operating from the station of Sig, N3RS. After the contest, Sig was thrilled: "This was our first attempt at M2 in the WPX CW and we set a goal of breaking the old record. As the hours went on, we realized that we would exceed even our wildest dreams." They not only got the USA record, but the North America record as well! Another noteworthy effort was by a station far from the main population centers of Europe and North America. The team at KH6LC demolished the existing Oceania record on their way to finishing ninth overall.

The Multi-Operator Multi-Transmitter category is a clash of titans. These stations cover all bands and show us what is truly possible to work in 48 hours. There is an enthusiastic group in Columbia that is stepping into the upper ranks of major contest stations. The team at HK1NA made nearly 10,000 contacts on their way to a world high score, not far from the all-time record. DR1A once again took the European honors ahead of their rivals 9A1A and LZ9W. The USA title fight was between NR4M in Virginia and NQ4I in Georgia with NR4M winning on QSO



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## USA Single-Operator All Band High Power

The top 8 USA finishers all broke the USA record!

	Score	QSOs/Prefixes	160	80	40	20	15	10
KC3R	11,264,620	3530/1060	0	42	803	1143	1415	127
K0DQ/1	11,247,424	3460/1072	0	4	661	1083	1654	58
AK1W	10,912,512	3523/1093	5	67	588	1190	1565	108
WC1M	10,409,580	3226/1042	0	0	672	1160	1363	31
NN5J	10,256,974	3337/1079	0	6	705	869	1652	105
NU2F	10,084,767	3259/1043	1 108	606	915	1564	65	
AA3B	10,034,346	3346/1038	0 102	677	1129	1369	69	
K1LZ	9,960,030	3219/ 999	0 105	703	889	1440	82	

## Low Power

The top 5 USA finishers all broke the USA record!

	Score	QSOs/Prefixes	160	80	40	20	15	10
*W3EF	5,704,362	2047/ 933	1	30	613	464	867	72
*N5AW	4,986,550	2111/ 905	0	4	377	698	949	83
*NV1N	4,941,895	1991/ 805	0	1	490	588	881	31
*KS9K	4,729,440	2035/ 835	0	21	320	657	1004	33
*W1UJ	4,537,776	1877/ 804	0	11	584	662	552	68

points. Seven members of the Bavarian Contest Club from Germany travelled to Alaska to help put KL7RA into the MM game.

## Overlay Categories

There aren't as many Rookie entries in CW as there are on SSB, but they are all learning and having fun. The low-power Rookie champion was Mike, AB1OD. Mike entered the weekend wanting to "prove that it is possible for a relatively new ham ... to work 100 countries in under 48 hours." He did it! "The next time a new or inexperienced ham tries to write off DXCC-in-a-weekend as something that only a well-

equipped DX or contesting station can achieve ... well, I think I've shown quite the opposite. No amps, towers, or beams here, just a couple of copper wires strung between some convenient trees, and a barefoot rig in the shack."

The Tribander/Single-Element category was a fascinating game of DX operators getting the most from their stations. The top six scores were from six different continents! Robert, S53AR, made a lot of people happy operating from Sudan as ST2AR. Pertti, OH2PM, made the trip from Finland to Istanbul to finish a close second as TC2X. Dave, NH2T, represented Oceania for third place. Ville, PY2ZEA (aka OH2MM), operated a field-day

style temporary station from Fernando de Noronha as PW0F. Fifth place went to Boris, S53CC, operating from S50C. And the final continent was covered by Yury, N2TTA, operating KV4FZ.

## Club Competition

The overall winner of the club competition was once again the Bavarian Contest Club from Germany, raising their record set last year by 50% to 450-million points! Their rival, the Rhein Ruhr DX Association, also broke the old record, but had to settle for second place. The South American clubs continue to grow with the Aracaria DX Group finishing just ahead of the LU Contest Group. Among the 61 USA club entries, the Potomac Valley Radio Club managed 120 scores to achieve first place over the Northern California Contest Club.

## Final Thoughts

We had to issue some penalty Yellow and Red cards again this year. While the overwhelming majority of participants do follow the rules, it seems there are a few who push beyond the limits. The ability to record the full contest across all bands gives us a very powerful tool to investigate the story behind what appears in the logs. Even though it is sometimes hard to tell, we do see that compliance with contest rules is improving and that benefits all who enjoy radiosport.

As always, there are many people who contribute to the success of the WPX Contest. We had log typing help from EA4KD, K1PX, K2DSL, K8PO, and VA3UG. Special thanks to Jim, WI9WI, for spending many hours manually reviewing busted callsigns. It would be

impossible to support the growing number of log entries without the software development contributions of K1EA and the skilled IT expertise of N5KO, K5TR, and KM3T. K1DG and W5GN make sure everyone gets the plaque or certificate they have earned.

For expanded results of the 2012 WPX CW Contest, including additional tables, QRM, and a list of multi-station ops, go to the CQ website at <www.cq-amateur-radio.com> and look under the Contests section.

This will be my last write-up as Director of the CQ WPX Contest. With the retirement of K3EST, I was asked by CQ to take on management of the CQ WW DX Contest. We are actively looking for a new WPX Contest Director. If you have an interest, please contact me. It is a great oppor-

tunity to give back to contesting and there are a lot of great people ready to provide support.

The 2013 WPX CW Contest will be held on May 25 and 26. There are some small rule changes for the 2013 contest (including log submission deadline), so please read the rules very carefully and visit the frequently asked questions page on the CQ WPX Contest Web site (www.cqwpw.com). The log deadline is June 1, 2013. Submit your log through the upload page on the website or by e-mail to <cw@cqwpw.com>.

—Randy, K5ZD

(Scores on page 102)

## 2012 CQ WW WPX SSB & CW COMBINED CLUB SCORES

UNITED STATES		
Club	Entries	Score
POTOMAC VALLEY RADIO CLUB	120	250,607,282
NORTHERN CALIFORNIA CONTEST CLUB	97	217,881,750
YANKEE CLIPPER CONTEST CLUB	94	169,155,773
FRANKFORD RADIO CLUB	55	139,667,732
FLORIDA CONTEST GROUP	72	111,832,255
SOUTH EAST CONTEST CLUB	35	91,590,856
SOUTHERN CALIFORNIA CONTEST CLUB	44	81,072,547
ARIZONA OUTLAWS CONTEST CLUB	74	77,496,485
SOCIETY OF MIDWEST CONTESTERS	56	69,350,753
CENTRAL TEXAS DX AND CONTEST CLUB	23	63,510,381
TENNESSEE CONTEST GROUP	46	62,354,948
ALABAMA CONTEST GROUP	32	45,176,384
WILLAMETTE VALLEY DX CLUB	27	36,913,267
MAD RIVER RADIO CLUB	16	36,813,692
MOTHER LODE DX/CONTEST CLUB	20	30,963,150
WESTERN WASHINGTON DX CLUB	24	28,954,202
NORTH COAST CONTESTERS	12	26,365,773
KANSAS CITY CONTEST CLUB	9	20,302,992
DFW CONTEST GROUP	25	19,343,974
MINNESOTA WIRELESS ASSN	37	18,775,053
CTRI CONTEST GROUP	8	15,600,978
NORTH TEXAS CONTEST CLUB	13	11,548,533
HUDSON VALLEY CONTESTERS AND DXERS	18	10,882,863
SOUTHWEST OHIO DX ASSOCIATION	6	9,749,584
GRAND MESA CONTESTERS OF COLORADO	19	9,649,005
SPOKANE DX ASSOCIATION	16	7,108,868
599 DX ASSOCIATION	3	5,335,322
OKLAHOMA DX ASSOCIATION	3	4,890,953
LOUISIANA CONTEST CLUB	6	4,770,347
GLOUCESTER COUNTY APC	5	4,270,344
ROCHESTER (NY) DX ASSN	10	3,928,955
ORDER OF BOILED OWLS OF NEW YORK	10	3,827,086
DELARA CONTEST TEAM	6	3,726,447
TEXAS DX SOCIETY	9	3,651,803
NORTHERN ARIZONA DX ASSN	3	3,265,550
BRISTOL (TN/VA) ARC	11	3,103,578
MURGAS AMATEUR RADIO CLUB	6	3,012,467
DELAWARE LEHIGH AMATEUR RADIO CLUB	6	2,921,482
MISSISSIPPI VALLEY DX/CONTEST CLUB	9	2,908,434
NORTHERN ROCKIES DX ASSOCIATION	5	2,789,342
STERLING PARK AMATEUR RADIO CLUB	7	2,268,500
CAROLINA DX ASSOCIATION	11	2,074,018
LONE STAR DX ASSOCIATION	7	1,851,585
KANSAS CITY DX CLUB	3	1,629,481
MERIDEN ARC	3	1,544,796
METRO DX CLUB	11	1,494,413
HILLTOP TRANSMITTING ASSN	5	1,375,068
BERGEN ARA	7	1,163,215
UTAH DX ASSOCIATION	10	1,058,199
ALL AMATEUR RADIO CLUB	3	843,450
EASTERN IOWA DX ASSOCIATION	3	745,026
CENTRAL ARIZONA DX ASSOCIATION	3	737,297
SOUTH JERSEY DX ASSOCIATION	3	732,846
WEST PARK RADIOPS	12	720,294
PORTAGE COUNTY AMATEUR RADIO SERVICE	4	595,447
SKYVIEW RADIO SOCIETY	3	477,856
WESTERN NEW YORK DX ASSOCIATION	3	430,511
SOUTHEASTERN DX CLUB	3	322,308
RADIO CLUB OF REDMOND	3	93,154
SOUTHERN CALIFORNIA DX CLUB	3	26,102
KENTUCKY CONTEST GROUP	3	5,070
DX		
BAVARIAN CONTEST CLUB	184	441,610,686
RHEIN RUHR DX ASSOCIATION	136	319,161,151
ARAUCARIA DX GROUP	65	227,082,770
LU CONTEST GROUP	58	204,745,093
CROATIAN CONTEST CLUB	64	193,589,338
URAL CONTEST GROUP	33	146,817,745
RUSSIAN CONTEST CLUB*	63	127,893,718
CONTEST CLUB FINLAND	42	126,983,994
SLOVENIA CONTEST CLUB	37	118,763,573
UKRAINIAN CONTEST CLUB	92	118,412,992
CONTEST CLUB ONTARIO	61	117,428,557
BLACK SEA CONTEST CLUB	90	115,121,906
KAUNAS UNIVERSITY OF TECHNOLOGY RADIO CLUB	47	90,910,525
LZ CONTEST TEAM	6	90,339,693
YU CONTEST CLUB	22	82,050,002
FORTALEZA DX GROUP	4	79,376,611
HA-DX-CLUB	14	75,678,541
VK CONTEST CLUB	20	74,752,982
WORLD WIDE YOUNG CONTESTERS*	20	70,046,969
BOSNIA AND HERZEGOVINA CONTEST CLUB	20	55,361,432
LATVIAN CONTEST CLUB	32	54,946,816
SP DX CLUB	61	50,847,210
BELOKRANEC CONTEST CLUB	10	43,747,290
ARIPA DX TEAM	4	42,623,143
ORCA DX AND CONTEST CLUB	17	35,727,451
LITHUANIAN CONTEST GROUP	14	32,605,399
RADIO CLUB HENARES	6	32,603,075
CHILTERN DX CLUB	15	31,106,326
BELARUS CONTEST CLUB	16	27,967,471
SOUTH URAL CONTEST CLUB	16	26,903,515
MARITIME CONTEST CLUB	16	25,387,000
WEST SERBIA CONTEST CLUB	11	24,571,969
VYTAUTAS MAGNUS UNIVERSITY RADIO CLUB	10	23,719,371
DONBASS CONTEST CLUB	30	18,686,292
ARCIBESSI DX & CONTEST GROUP	3	17,810,337
BRITISH COLUMBIA DX CLUB	4	16,773,885
RUSSIAN CW CLUB*	38	16,565,934
CE CONTEST GROUP	6	15,459,578
RIO DX GROUP	33	13,676,769
CONTEST GROUP DU QUEBEC	13	13,505,007
LES NOUVELLES DX	12	12,206,000
FOX CONTEST CLUB	3	11,691,254
RADIOCLUBUL RADU BRATU	4	11,503,368
YO DX CLUB	21	11,289,610
SKY CONTEST CLUB	3	11,011,143
CENTRAL SIBERIA DX CLUB	6	10,632,755
CZECH CONTEST CLUB	5	10,086,155
IVANOVO DX CLUB	6	9,838,498
SP CONTEST CLUB	6	9,227,419
CANTAREIRA DX GROUP	12	9,037,887
RADIO AMATEUR ASSOCIATION OF WESTERN GREECE	4	8,853,384
TEMIRTAU CONTEST CLUB	7	8,706,859
ALRS ST PETERSBURG	9	8,506,547
RADIO CLUB VENEZOLANO CARACAS	4	8,277,378
SIAM DX GROUP	8	7,862,329
DANISH DX GROUP	11	7,817,420
CLIPPERTON DX CLUB	4	7,305,985
NOVOKUZNETSK RADIO CLUB	7	6,713,880
UA2 CONTEST CLUB	8	6,102,355
LA CONTEST CLUB	4	5,699,014
EAST COAST CANADA CONTEST CLUB	3	5,572,991
YB LAND DX CLUB	13	5,545,799
TARTU CONTEST TEAM	3	5,462,834
ARKTIKA	10	5,426,116
CIQEVAC CONTEST CLUB	4	5,369,391
THRACIAN ROSE CLUB	3	5,364,137
ALBERTA CLIPPERS	5	5,220,138
CENTO DX TEAM	3	4,818,718
RADIO CLUB PARMA	5	4,727,966
SOUTH GERMAN DX GROUP	5	4,689,098
VRHNKA CONTESTERS	7	4,626,771
RADIO CLUB VENEZOLANO	4	4,607,712
KEMEROVO RADIO CLUB	3	4,556,456
ORENBURG CONTEST CLUB	5	4,178,981
FALKOPINGS RADIOCLUB	5	3,701,597
OS PET COLUB PLOESTI	3	3,639,371
RADIO CLUB URUGUAYO	3	3,582,826
NGU SHORTWAVE CLUB	3	3,458,344
IPANIS CONTEST GROUP	8	3,436,115
HAROS RADIO CLUB	3	3,084,237
599 CONTEST CLUB	5	3,082,872
TRANSILVANIA CONNECTION	3	2,962,857
UNION FRANCAISE DES TELEGRAPHISTES	3	2,925,519
VERENIGING VAN RADIO ZEND AMATEURS	5	2,849,854
STAVROPOL REGION CONTEST CLUB	5	2,568,392
LQMA DEL TORO CONTEST CLUB	3	2,460,651
SARACHEWANI CONTEST CLUB	7	2,448,452
OMSK RADIO CLUB	7	2,442,185
RU-QRP CLUB	16	2,433,559
SHAKHAN CONTEST CLUB	8	2,410,985
ARCK	10	2,304,829
GRUPO DXXE	6	2,257,368
GUARA DX GROUP	10	2,203,196
SAMARA RADIO CLUB	5	2,033,589
MOSCOW RADIO CLUB	8	1,889,265
DNEPR CONTEST GROUP	3	1,784,234
TOP OF EUROPE CONTESTERS	4	1,727,468
YOLYN CONTEST GROUP	4	1,525,570
PERUGIA CONTEST CLUB	5	1,517,417
CSM BISTRITA	3	1,502,906
BALKAN CONTEST CLUB	3	1,446,345
CONTEST CLUB HARZ HEIDE	4	1,405,040
KOREA CONTEST CLUB	3	1,376,362
RTTY CONTESTERS OF JAPAN	5	1,304,484
NOVOSIBIRSK CONTEST CLUB	6	1,245,947
SARATOVSKAYA OBLAST RADIO CLUB	6	1,241,876
VU CONTEST GROUP	10	1,136,517
VLADIMIR CONTEST GROUP	7	1,095,112
SKBAW HISSINGENS RADIOKLUBB	3	1,070,148
ARJ ARAD	5	1,052,532
SPEKTR	3	1,018,307
CSM BAIA MARE	7	1,014,757
PODOLSK	5	1,000,297
Z37M CONTEST TEAM	5	975,478
R4F-DX-G	5	908,766
EUROPEAN PSK CLUB	9	811,322
MEDITERRANEO DX CLUB	3	751,290
SPORT CLUB MIERCUREA-CIUC	5	731,715
YAMAL RADIO CLUB	5	711,443
UR-QRP CLUB	5	652,674
CS SILVER FOX DEVA	3	451,695
KIEV RADIO CLUB	3	438,708
NANJING DX CLUB	4	431,419
KALININGRAD RADIO CLUB	3	422,473
VLADIMIR RADIO CLUB	4	407,993
EDIT14	4	394,453
MAYCOPSKIJ RADIO CLUB	4	392,586
GERMAN DX FOUNDATION	3	353,148
CLUB DE RADIO EXPERIMENTADORES DE OCCIDENTE	3	241,370
KKKK CONTEST CLUB KRASNODARSKOGO KRAYA	4	233,573
GRUPO ARGENTINO DE CW	3	178,439
CDR GROUP	3	86,748
OBNSK QRU CLUB	4	76,723
AGB ACTIVITY GROUP OF BELARUS	3	76,235
BASHKORTOSTAN DX CLUB	3	59,106
CSM CLUJ-NAPOCA	7	35,190
CWJF GROUP	3	34,754
RADIOAMATOR	3	23,138

\*Club entry does not meet all rules.



Number groups after call letters denote following: Band (A = all), Final Score, Number of QSOs, and Prefixes. An asterisk (\*) before a call indicates low power. Certificate winners are listed in bold-face. (Note that the country names and groupings reflect the DXCC list at the time of the contest.)

**2012 WPX CW RESULTS  
SINGLE OPERATOR  
NORTH AMERICA  
United States**

KD0D/1 AK1W	A	11,247,424	3460	1072	3523	1093
W1C1M	*	10,409,580	3226	1042	(OP: K5ZD)	
K1LZ	*	9,960,030	3219	999		
K02M/1	*	3,625,056	1696	738		
K1ZR	*	876,960	772	435		
NM1JY	*	733,146	649	426		
K1ZZ	*	656,658	566	382		
NB1N	*	372,189	429	291		
N1BCL	*	349,069	430	339		
WX7T/1	*	231,120	336	240		
KA110R	*	124,384	233	184		
K1E5E	*	35,217	128	117		
WZHD/1	21	<b>3,267</b>	<b>33</b>	<b>33</b>		
NM1N	7	<b>3,592,625</b>	<b>1276</b>	<b>701</b>		
N1VN	A	<b>4,941,895</b>	<b>1891</b>	<b>805</b>		
*W1LJ	*	4,537,776	1877	804		
*KQ1F	*	1,832,474	1059	581		
*W1CC2	*	1,122,408	842	504		
*W1MA	*	681,438	615	411		
*W1TO	*	634,088	565	364		
*K1TR	*	581,080	553	365		
*W3SM/1	*	453,120	512	354		
*W1AZ	*	392,581	422	339		
*K1PU	*	274,060	384	284		
*N1OY	*	249,696	306	216		
*N1MN	*	197,184	315	237		
*KG1V	*	102,600	254	190		
*A1B1Q	*	81,144	182	161		
*W1PID	*	81,144	202	168		
*NM1J	*	62,920	158	130		
*A1A1O	*	46,364	165	134		
*K1IU	*	37,932	134	116		
*K1MC	*	36,750	117	105		
*KA1VMG	*	31,086	114	99		
*A1A1R	*	27,280	96	88		
*W1MJ	*	26,433	100	89		
*W1HFF	*	25,112	98	86		
*W1XH	*	10,465	74	69		
*KE1CY	*	5,040	42	42		
*K1B1GN	*	4,545	47	40		
*W1OHM	*	3,160	43	40		
*K1NHV	*	1,012	23	22		
*K1SEA	28	<b>112</b>	<b>7</b>	<b>7</b>		
*KA1RF2	21	<b>525</b>	<b>18</b>	<b>21</b>		
*W1HF3	14	<b>286</b>	<b>12</b>	<b>11</b>		
NU2F	A	<b>10,084,767</b>	<b>3259</b>	<b>1043</b>		
K3EL/2	*	5,742,162	2253	894		
NW2K	*	1,704,375	1183	625		
WS9M/2	*	944,937	825	477		
N2M2D	*	796,740	752	420		
K1PZ	*	432,047	503	341		
K2AXX	*	301,879	390	299		
K2YR	*	7,752	54	51		
K02KZ/1	*	2,828	34	28		
N2HO	*	333	10	9		
N2MM	14	<b>2,743,785</b>	<b>1471</b>	<b>759</b>		
KR2AA	*	1,782,144	1157	672		
WN2O	7	<b>1,694,952</b>	<b>873</b>	<b>531</b>		
WA2JQK	*	8,840	52	52		
*K2ZF	A	<b>1,369,991</b>	<b>980</b>	<b>511</b>		
*W2MCR	*	1,217,700	831	492		
*W2MCR	*	582,930	601	381		
*N2UJ	*	434,880	496	320		
*K4RUM/2	*	332,150	474	325		
*W2SA	*	283,812	377	268		
*K02VZ/2	*	231,984	298	216		
*K04RVM	*	129,010	247	194		
*AK2B	*	107,476	237	194		
*K1SXD/2	*	41,406	120	103		
*KR2D	*	27,872	116	104		
*N2RI	*	25,520	102	88		
*KA2FHN	*	10,833	83	69		
*K02MBV	*	8,494	70	62		
*W2JC	*	8,460	61	60		
*K2PF	*	6,072	49	46		
*K2M2M	*	2,294	33	31		
*W2AAB	28	<b>5,400</b>	<b>51</b>	<b>50</b>		
*K2UM	21	<b>3,248,154</b>	<b>1586</b>	<b>819</b>		
*N2TJ	14	<b>1,670,310</b>	<b>1037</b>	<b>670</b>		
N2JJ	*	179,129	296	257		
*W2EG	7	<b>955,164</b>	<b>589</b>	<b>411</b>		
*K2ZC	*	58,710	107	87		
*K1X2	*	8,040	75	67		
K03R	A	<b>11,264,620</b>	<b>3530</b>	<b>1060</b>		
AA3B	*	10,034,346	3346	1038		
WM3T	*	8,871,720	3089	940		
K03X	*	8,005,419	2902	963		
K3ZO	*	7,398,404	2561	949		
W3LL	*	3,396,240	1585	720		
N1WR/3	*	3,110,376	1481	718		
K2LNS/3	*	2,802,335	1484	685		
N3UM	*	2,536,128	1296	629		
K3TN	*	790,312	647	445		
KN3A	*	182,442	151	111		
K83P	*	65,182	132	108		
N3XL	28	<b>8,468</b>	<b>61</b>	<b>59</b>		
W3BG	3.5	<b>335,400</b>	<b>382</b>	<b>260</b>		
N3AF	*	7,488	56	52		
*W3EF	A	<b>5,704,362</b>	<b>2047</b>	<b>933</b>		
*K3AJ	*	2,532,117	1330	643		
*N3DO	*	784,080	677	440		
*W3DON	*	611,886	571	381		
*N3KR	*	444,938	506	314		
*ND3R	*	339,465	407	305		
*W03Z	*	284,499	351	257		
*K83U/3	*	282,138	364	261		
*W03O	*	201,728	342	256		
*N8NA/3	*	194,805	265	195		
*W2V0V/3	*	142,560	269	216		
*K3CWF	*	87,325	215	175		
*N3JN	*	82,170	208	166		
*W3JUU	*	81,997	190	167		
*N3RN	*	23,585	89	89		
*N3JXK	*	16,401	96	77		
*K3JUA	*	10,494	59	53		
*K03HN	*	987	22	21		
*K2P/3	28	<b>3,535</b>	<b>38</b>	<b>35</b>		
*K3G/3	7	<b>108,679</b>	<b>211</b>	<b>191</b>		
*A1G3	7	<b>3,195</b>	<b>52</b>	<b>45</b>		
NSWR/4	A	<b>8,992,848</b>	<b>3246</b>	<b>1032</b>		
AD4Z	*	7,761,728	2955	988		
WR3O/4	*	7,311,827	2908	1007		
WW4R	*	7,054,008	2831	983		
KR4Z	*	6,110,736	2371	976		
AD4EB	*	4,618,900	2135	857		
WZ4F	*	4,614,088	2136	857		
NR4O/4	*	3,034,408	1525	716		
K4PV	*	2,681,376	1708	744		
N4NO	*	2,342,311	1359	653		
K3ZM/4	*	2,327,850	1342	630		
K7C5/4	*	1,701,720	1104	580		
N4AK	*	1,627,340	1079	572		
K1G1U/4	*	1,388,050	995	570		
N4OS	*	688,335	656	421		
K4DJ	*	687,232	641	416		
N4AAI	*	662,415	655	395		
W4JAM	*	642,420	581	387		
K4MF	*	611,980	561	370		
K9U0N/4	*	610,189	658	397		
K8AUP/4	*	609,484	570	386		
K5M9/4	*	603,168	612	412		
W9W1/4	*	546,390	578	390		
WX4G	*	523,920	503	370		
K4HAL	*	449,163	509	349		
W0UC2/4	*	394,714	489	302		
W2YE/4	*	366,212	425	319		
N4KX	*	339,000	451	300		
K4LM	*	334,400	461	320		
K4OV	*	312,320	396	305		
A14WV	*	208,620	331	244		
N4AA	*	196,230	292	211		
NE4M	*	185,703	297	239		
N4AC	*	131,000	253	200		
K4CX	*	105,276	256	186		
K4GG	*	104,649	203	166		
W7HJ/4	*	73,625	189	155		
K7OM/4	*	56,356	175	146		
ND1Y/4	*	50,008	152	133		
W2O0/4	*	46,592	148	128		
NS3Q/4	*	32,025	130	105		
AD4IE	*	29,403	110	99		
NS4X	*	26,751	126	111		
K4EC	*	18,720	113	96		
K4CFP	*	18,601	110	89		
K9K0/4	*	17,952	93	88		
K4JGR	*	15,480	90	86		
A4J4R	*	1,320	22	22		
K84FB	*	360	12	12		
WN1G1U/4	28	<b>856,996</b>	<b>877</b>	<b>508</b>		
KS5P/4	21	<b>5,800</b>	<b>50</b>	<b>50</b>		
NS3Z/4	14	<b>748,862</b>	<b>634</b>	<b>466</b>		
AA4VU	7	<b>82,708</b>	<b>127</b>	<b>124</b>		
*W7FT/4	A	<b>3,423,888</b>	<b>1665</b>	<b>744</b>		
*NR3X/4	*	2,731,848	1550	707		
*W4YE	*	1,645,084	1023	574		
*NJ4I	*	1,508,874	1180	579		
*KE4KY	*	839,520	784	440		
*K4ORD	*	792,918	680	406		
*KN4DD	*	683,366	574	398		
*K4NC	*	595,103	600	397		
*W4GDG	*	575,296	596	356		
*NJ8J/4	*	427,869	532	351		
*K4FE	*	402,784	473	307		
*W4UFE	*	385,408	433	285		
*W00Q0/4	*	344,560	438	295		
*KM4JA	*	311,787	424	303		
*K8AC/4	*	305,280	377	288		
*N4UC	*	295,450	413	311		
*N4JF						



Singapore				LZ1BP				146,370	299	246	Dodecanese				*UA3DA				1,277,926	1108	598	R7BN					328,997	499	383						
9V1YC	A	1,354,050	1022	531	*LZ9R		135,585	243	207	*SV5/OK20B				1.8	1,150	24	23	*R3PA				1,101,449	1069	551	R7NK					135,791	405	251			
*9V1RM	21	966	21	21	*LZ1AQ				55,939	188	169	GSW				A	6,487,030	2855	935	*UA3DCW				838,942	929	533	*R3AKD				7	378,885	402	335	
Taiwan				*LZ2FO				41,715	145	135	*UA3AKI								*RN3ADV				699,300	756	444	*RA5MGLRR				3.5	164,754	326	243		
BV1EK	A	612,880	636	376	*LZ1A				28	51,850	210	170	*UA3QAM								*UA3QAT				633,719	738	467	*R7MM				A	3,000,746	1939	778
*BV4VQ	21	72	6	6	*LZ1EP					10,591	97	89	*RV3L								*RV3M				527,000	588	425	*UC6A					2,036,377	1526	691
Thailand				*LZ1JA				21	377,076	466	402	*RV3Y								*RV3Z				501,808	655	397	*R7WN					2,000,008	1331	712	
HS0AC	A	764,817	765	447	*LZ1PZ					110,137	292	241	*RV3ZM								*RV3ZNR				423,045	588	395	*RL6MA					900,176	959	508
*HS0ZDR	21	63	63	63	*LZ1FY				3.5	176,972	369	302	*RV3ZNR								*RV3ZNR				414,534	568	401	*RV6LQ					810,876	825	499
*E21YDP	A	690,480	648	420	*SV9/SQ9UM				A	1,787,040	1777	657	*RV3ZNR								*RV3ZNR				524,814	544	391	*UAG6F					697,070	522	390
*E20YLM		6,649	65	61	Croatia								*RV3ZNR								*RV3ZNR				359,540	570	350	*RA6FPV					392,030	538	394
*HS3LSE		6,386	67	62	9A5X				A	8,333,388	3053	1022	*RV3ZNR								*RV3ZNR				327,012	555	357	*RN6LO					363,992	493	346
*HS8FLU	14	96	6	6	9A0Z					7,014,298	2849	991	*RV3ZNR								*RV3ZNR				278,142	505	307	*RV7A					192,768	304	251
UK Base Areas on Cyprus				9A2SW					52,608	162	137	*RV3ZNR								*RV3ZNR				272,727	512	351	*RA6HSM					179,402	392	271	
ZC4LI	21	2,467,470	1315	706	9A5Y					5,577,561	2366	1063	*RV3ZNR								*RV3ZNR				262,276	487	323	*RAJ					156,168	348	241
United Arab Emirates				9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				227,104	440	302	*RW7M					125,988	308	236	
A658D	21	5,931,486	2325	957	9A4U					612,446	686	454	*RV3ZNR								*RV3ZNR				203,896	406	208	*UAGHF1					117,705	233	177
*A65BT	A	6,448	54	52	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				173,371	334	259	*RW6GA					105,922	232	192
Uzbekistan				9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				141,986	337	254	*UAG6CEY					72,540	192	155	
*UK8AR	14	376,279	446	317	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				136,560	323	240	*RM4H/WL					59,807	247	178
West Malaysia				9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				125,373	323	237	*RM4H/WL					49,377	158	151	
9M2MT	A	1,754,676	1246	594	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
*9M2TO		183,920	319	242	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
*9M2JE1SCJ		171,450	354	225	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
*9M2ZAK		62,491	200	143	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
*9M2SM	21	32,340	125	110	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
*9M2BDC		1,971	27	27	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
EUROPE				9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111	
Aland Islands				9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111	
OH0X	A	7,762,982	3388	1037	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
OG0Z		7,609,011	3339	1101	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
Austria				9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111	
OE2LCM	A	1,935,690	1348	678	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
OE3KAB		1,156,628	983	542	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
OE1ZKC	7	52,681	172	139	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
Azores				9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111	
CR2AA	A	204,485	363	265	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
CR1X	21	7,293,280	3085	1154	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
Balearic Islands				9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111	
E6SX	A	2,373,630	1186	623	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
*E6AZS	7	179,550	344	266	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
*E6EK		25,414	150	131	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
Belarus				9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111	
EU5T	A	4,952,982	2412	937	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
EW8D		2,411,464	1769	737	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
EW8DD		506,849	988	427	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
EW3LN		306,566	439	338	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
EU7SR		7,252	55	49	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
EW6M	14	468,174	632	426	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
EW1DD	1.8	130,834	316	209	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
*EW6CU	A	977,522	521	533	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
*EU6AA		381,920	550	352	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
*EU3AA		463,290	463	335	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
*EU4CO		131,312	279	232	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
*EU4CO		103,180	288	220	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282	212	*RV6MA					23,871	144	111
*EU2MM		92,665	239	215	9A2SW					65,860	192	178	*RV3ZNR								*RV3ZNR				102,396	282									









JA0VTK/7	211,993	354	239	R09CX	220,864	322	272	KT1R/5	2,708,235	1491	743
IV5DRP	210,064	394	311	VE3GTC	213,120	353	296	KMSP5	102,672	211	186
KS4K	205,668	317	197	VE6WQ	194,560	298	256	W06X	5,277,140	2374	935
OK2BLD	191,254	283	266	Y0R8IX	174,876	289	247	KUGW	4,283,125	2022	875
OK2BWJ	190,978	413	274	JR1NKN	151,656	299	267	AG6AU	688,944	703	463
JH1GNU	178,200	286	198	DL3ZTM	137,196	280	222	N6QQ	417,573	432	387
K3WW	177,450	261	195	R8US	133,650	285	243	K57AA	7,351,392	2702	1049
RW3AI	172,791	405	263	IV3AOL	130,628	248	203	K07W	4,040,548	1959	851
JAS9MAT	170,236	318	212	IO3K	109,384	256	226	K0LIR	1,341,448	1029	584
K3WVWP	168,800	286	200	OP: IZ3WV	106,027	244	229	WB0GAZ	773,520	655	440
EA1GT	166,656	300	248	UL4JDD	99,567	266	207	Canada	8,475,838	2776	994
Y04AAC	166,518	353	261	WA6FGV	76,726	189	169	VE3YAA	5,316,150	2024	854
OK7CM	162,567	314	243	N2EIK	60,534	201	171	US Virgin Islands	18,213,104	4511	1274
W1CSM	142,951	216	163	OK1AJ	59,924	155	142	ASIA	22,825,001	5124	2678
PE2K	135,683	333	241	UI8CM	56,405	158	145	Asiatic Russia	2,401,476	1133	678
WB4SON/1	122,388	247	188	DL1DXA	48,048	143	132	RF9C	2,401,476	1133	678
7K1CPT	113,580	233	180	JH3DMQ	46,944	158	144	RF9T	79,424	188	146
NU4B	107,562	213	197	UI2UR	39,375	132	125	RF9W	26,508	102	94
W0EA	105,872	283	208	AE9F/6	31,024	130	112	RK9HWA	17,302	94	82
UT7MT	87,899	268	203	DL3VTL	30,645	149	135	RT0C	8,226,312	2977	1059
VE2KOT	84,111	196	159	HG5O	21,708	114	108	RZ0CWN	1,187,552	1020	544
K63W	83,367	222	177	RA6XB	14,952	93	89	China	5,317,443	2535	873
VA3RKM	79,032	191	148	SV9/DL7VOA	11,218	81	79	B44T	1,977,360	1145	616
RU3FB	76,608	245	192	W5NZ/4	9,108	66	66	BY1OK	1,207,264	1035	496
DL7UMK	75,420	229	180	SP9LXE	6,634	64	62	BY1CW	1,067,526	1122	477
KB4DQJ	74,800	199	170	K7QO	5,814	67	57	B1C	1,039,575	933	501
W0CC	66,270	170	141	H5K8G6/5	3,654	43	42	Cyprus	28,268,697	6066	1373
DQ2X	64,638	228	189	YC2YTH	3,296	35	32	Japan	301,104	403	272
AA4GA	60,060	167	140	M0OSH	3,040	41	40	JA1ZGP	301,104	403	272
UT5EOX	59,500	222	170	JH8DBI	2,905	35	35	J03JS	5,657,046	2167	971
UY1AW	58,617	198	167	OK1DEK	1,500	30	30	JE7YSS	1,193,292	785	508
DG9VH	57,760	215	160	PY2ZQ	880	21	20	JA8RW	5,603,280	2307	888
A9K	56,092	205	149	KH6CS	790	16	16	JK2EJ/7	305,316	470	297
NO2D/0	55,050	184	150	J03XCK	32	4	4	Thailand	735,046	840	442
RV3DBK	54,648	250	184	DL2SHR	9	3	3	H55AC	279,669	419	303
KU7Y	51,356	199	148	YP0CW	817,075	811	575	EUROPE	14,880,748	4352	1388
DL7GEM	51,198	200	161	YU1LM	439,410	591	453	Austria	14,880,748	4352	1388
UA0SBO	48,600	150	120	UA6LJ	405,680	596	440	Belgium	5,762,610	2513	945
ON7CC	47,658	203	169	WB8JU	184,408	320	259	Bosnia-Herzegovina	12,862,458	4278	1302
PA1B	39,216	175	152	LZ1VB	160,563	351	299	Croatia	13,158,558	4126	1323
UN7EZ	31,828	117	139	EA7AAW	107,115	218	193	HR98M	10,839,915	3687	1251
G7PZC	30,873	153	123	UA1ATD	98,306	238	199	9A207T	5,244,278	2340	1006
NT4TS	30,848	136	128	H7MWW	67,940	256	215	9A4J	3,174,425	1971	779
N4NM	30,797	118	103	E73CV	63,867	196	183	9A3W	2,679,362	1569	742
GM4HOF	27,528	124	124	I22QK	55,130	214	185	DL7C	7,303,591	3180	1037
PA0RBO	27,528	148	124	F5LZ	53,820	228	195	OL1C	6,068,337	2651	957
CX2AQ	27,354	106	97	F7E30Q	50,736	183	168	OK1KDO	419,118	537	357
W1FMR	26,312	114	104	K4UWH	47,538	192	171	OK5SWL	4,136	44	44
JR6HJ/1	26,133	119	89	DL1KTS	35,451	124	117	England	8,421,338	2837	1017
VA3WR	25,934	93	92	SP6BX	26,715	150	137	Estonia	17,760,738	5628	1438
JG1SPS	24,696	114	98	SM0J	19,221	142	129	European Russia	16,938,306	5636	1386
EX8BN	24,366	106	93	OM5MX	17,298	96	93	RU1A	16,938,306	5636	1386
NN0Q	23,200	118	100	KP3T	12,765	83	69	RZ1AWZ	779,220	1015	540
LUBEHR	21,414	90	86	W7J/8	11,470	76	74	R1Q0WX	100,127	305	223
IK1TWC	20,500	109	100	W8Y/5	8,825	85	75	RT4F	15,613,507	5407	1351
VE3MO	20,412	93	81	W1YWF	6,655	58	55	RK4HYT	332,992	555	352
WA5RML	19,855	120	85	OH8GZ	4,800	67	60	Fed. Rep. of Germany	13,499,640	4062	1320
EASEJK	19,776	106	96	UI4JQE	2,010	31	30	DR5N	9,905,536	3232	1216
W1ZMB/2	19,778	93	89	IN3UFW	1,848	42	42	DA0I	6,551,280	2868	1011
KX9Y/1	17,640	96	90	JR4VEV	1,296	25	24	DLOGL	5,469,282	2477	954
UA3JUC	15,100	106	100	IN3YKS	1,204	29	28	DL1WA	4,567,537	2216	949
ON2AD	14,868	95	84	KI0G	903	23	21	DL2A	4,267,482	2163	877
IK3OI	13,715	65	65	KE50DA	784	31	28	DK0ED	2,626,975	1639	767
OH2ID	11,316	91	82	EA3HFP	680	20	20	DL1NKS	1,435,392	1238	576
PC2F	11,289	81	71	JH10ES/1	342	19	18	DL9W	71,478	236	198
DL3BVA	11,286	93	86	JA1POS	320	16	16	Finland	7,108,872	3082	1084
AA8RT/5	9,240	60	56	EA6/DJ2QV	108	11	9	OS6N	6,763,815	3112	1095
N6HJ/7	8,164	58	52	F6ESB	56	8	8	OH4A	1,248,104	1030	572
AF9J	8,120	82	70	YU1WC	955,747	713	481	France	6,258,432	2622	928
H892PP	7,936	67	62	9A3JH	953,061	685	489	Greece	7,612,848	3887	1044
K0NE	7,680	62	60	SR7DQ	692,928	628	432	Hungary	486,810	662	405
AA3CS	6,654	59	54	DL2BX	428,090	541	410	Isle of Man	40,185	164	141
W2JEK	5,950	54	52	OP: DL8MBS	320	16	16	Italy	1,019,700	1182	550
VE3JG	5,712	45	42	OK5FW	364,980	428	330	Latvia	1,520,695	1102	643
K9OZ	4,628	57	52	K3TW/4	260,435	283	245	Lithuania	1,216,915	572	479
G7DDN	4,004	50	44	OL4W	128,570	267	215	Poland	8,665,034	3004	1162
W0DGT/5	3,800	47	40	OP: OK1F1	97,713	168	141	Romania	9,379,555	3615	1195
VE8RT	3,738	46	42	VE3MGY	97,713	168	141	Scotland	10,509,850	3996	1235
DK5CF	3,570	59	51	JZ2UFF	74,732	131	119	Slovak Republic	12,622,192	4109	1276
NX2PX	3,465	35	33	NZ1JZ	63,480	139	120	Spain	11,529,221	3869	1223
ON6AT	3,402	45	42	N68M	39,424	133	112	Slovenia	7,894,700	3167	1100
DL6DSA	3,311	47	43	WA2ASQ/4	31,824	123	102	Switzerland	3,346,904	1929	803
EA1AER	3,008	48	47	IW3JLM	31,088	138	116	Ukraine	4,974,970	2680	923
DK4CU	2,772	43	42	UR3ONV	30,910	124	110	Guam	8,831,415	2925	885
Y04HHP	2,747	42	41	OK2TEO	6,916	52	52	Indonesia	1,111,392	863	454
DL2BIS	2,136	40	35	DF1HF	6,670	65	58	Y0E1C	742,787	639	397
SV5/N6GQ	2,016	29	28	OK4JR	5,733	50	49	Lord Howe Island	2,849,132	1331	572
OP: N6G0	1,862	41	38	IK3MET	5,150	58	52	New Zealand	1,921,784	965	466
OP: G4FDC	1,827	30	29	OZ8A	2,211	35	33	South America	1,092,632	770	488
G04FDC	1,482	26	26	UT4UI	1,577	20	19	Argentina	1,092,632	770	488
KD9B/4	1,173	23	23	J8CXX	192	6	6	Aruba	15,209,220	3990	1105
MJ6TY	1,092	21	21	JR2KPO	1	1	1	Brazil	11,761,860	3315	1065
JR10SU	608	16	16	SS1DX	210,838	385	271	PX2W	11,761,860	3315	1065
AF9NI	540	21	18	TM3T	166,850	327	235	PX1M	201,716	303	239
JM1KLO	522	19	18	OK1FKD	157,528	334	232	Chile	2,083,284	1219	588
JE1JLP	288	9	8	SP6EY	124,952	295	217	Ecuador	10,871,904	3309	1076
JL6LTB	286	14	13	SP4GL	121,771	279	221	South Shetland Islands	835,125	631	393
RZ4AA	160	8	8	H6VA	45,552	164	146	Multi-operator two-transmitter North America	13,316,264	3680	1196
IS0/IZ8SAR	45	11	3	EU6R0	5,424	49	48	United States	15,311,340	4129	1254
JG1BGT	32	4	4	IT5DJ	3,960	52	45	United States	6,013,686	2258	917
IQ1TG	30	9	3	IZ3ALW	8	2	2	United States	13,316,264	3680	1196
OP: IZ1GJH	20	8	2	B44W1	2	1	1	United States	397,794	479	334
IZ1XRS/IT9	20	8	2	SS3AR	39,500	158	125	United States	12,603,616	3626	1161
I0UZF	307,802	477	374	HG5P	32,825	166	128	United States	12,603,616	3626	1161
4X0A	196,588	300	236	LY48F	9,648	75	67	United States	3,093,697	1432	787
RUTA	143,000	348	260	R3VA	1,058	25	23	United States	13,256,408	3904	1262
LZ2RS	99,864	274	219	W7DRA	40	4	4	United States	13,256,408	3904	1262
SS4AA	71,621	208	1								





The impressive antenna farm at ED1R.

*S08KFM	"	20,298	109	102	W2YE/4	"	366,212	425	319	*K4FPF	"	1,014,299	756	451	*W2AAB	28	5,400	51	50	UA1ANA	"	3,014,196	1950	804	
*M06VZ	"	19,594	112	101	N8C8	"	361,784	445	328	*KE4KY	"	839,520	784	440	*K2PS/3	"	3,535	38	35	Y03APJ	"	2,958,462	1641	807	
*M6ZSE	"	16,328	124	104						*W0SL	"	738,184	694	424	*K4FT	"	2,706	35	33	OK2BXE	"	2,725,800	1467	840	
*UR4UKV	"	14,268	94	87	W7PU	"	345,720	455	335	*K10I	"	729,428	660	436	*KK9V	"	2,046	31	31	F5VKT	"	2,553,776	1471	772	
*DL2VW	"	7,056	71	63						(OP: N7EPD)	"				*K5GM	"	319	11	11	DK1KC	"	2,429,904	1393	744	
*S05RHX	"	2,520	43	42	K4GAA	"	344,862	414	294	*W1MA	"	681,438	615	411	*NE8P	21	2,008,888	1334	719	J48HW	"	2,424,696	1814	744	
*J04DSH	"	858	26	22	K4LM	"	334,400	461	320	*W1TO	"	634,088	565	369	*NS1L/4	"	507,960	514	415						
*UB9LBL	"	448	14	14	W15ID	"	326,456	420	344	*K7HBN	"	600,732	570	396	*NFSY	"	275,070	397	318	R9DA	"	2,423,970	1290	690	
*M00DMJ	"	182	13	13	W4UT	"	315,117	425	297	*K4NC	"	595,103	600	397	*K3GW	"	108,679	211	191	EW8DX	"	2,411,464	1769	737	
*IT9BXR	28	95,472	261	221	K5MV	"	307,848	405	303	*KB7O	"	505,005	601	393	*AD0H	"	103,082	230	199	J8JOG	"	2,312,480	1384	745	
*Y05LD	21	341,432	443	364	AC7JW	"	292,204	449	319	*W8PN	"	458,084	531	359	*K1TN/9	"	101,314	200	179	I2WJL	"	2,257,542	1426	798	
*HB9EUY	"	183,870	335	270	AB2JW	"	290,160	321	310	*AD1C/0	"	436,230	457	333	*AF5CC	"	50,827	149	137	LY2MM	"	2,084,166	1425	714	
*UB8ACR	"	171,000	346	300	NK6A	"	275,424	417	302	*NZUJ	"	434,880	496	320	*W9AKS	"	13,363	83	83	F5KEQ	"	2,067,525	1461	675	
*UB4AAV	"	19,000	96	96	W08RP	"	253,365	427	285	*N1JG/4	"	427,869	532	351	*W0RX	"	12,400	68	65						
*EASHRB	"	14,112	82	72						(OP: M8XX @M8XX)	"				*ND0C	"	147	7	7	OV3X	"	2,046,765	1382	707	
*HS3LSE	"	4,905	45	45	W1CU	"	229,900	269	242	*K6AAB	"	412,629	531	343	*W1FCM/4	14	1,182,708	964	564	9A202JK	"	2,005,864	1193	731	
*PU3LYB	"	210	10	10	N06F	"	210,870	364	270	*AB3CV	"	400,050	316	315	*W8IO	"	447,720	508	410						
*HS8FLU	14	96	6	6						(OP: K2RD)	"				*NW4V	"	234,090	322	289	DJ8EW	"	1,944,957	1331	707	
*RA1AIZ	7	6,042	58	53	KS4X	"	205,668	317	261	*K1U0K	"	391,706	512	343	*N2JJ	"	179,129	296	257	IK8UND	"	1,936,896	1378	768	
					W6RFF	"	202,725	348	265						*N8SBE	"	62,812	175	164	OE2LC	"	1,935,690	1348	678	
					W3WC	"	200,629	299	253	*NS9I	"	367,308	459	342	*W8EH	"	36,771	125	119	JE1LFX	"	1,866,032	1022	569	
					WMS0	"	179,690	302	238	*AD9L	"	364,086	364	086	*AF8C	"	32,718	121	114	DL1LDD	"	1,828,404	1107	628	
					W3JUL	"	171,384	269	222						(OP: K9CS)	"				DL1NEO	"	1,574,601	1129	679	
					K7JQ	"	155,204	304	241	*W0DECO	"	338,015	487	335	*K1ZD/NG4	7	497,536	481	338	JAT7CO	"	1,498,420	956	539	
					KT1B	"	134,504	219	172	*KM4JA	"	311,787	424	303	*A66XX	"	218,640	299	240	R3ZV	"	1,332,020	1175	569	
					WU6W/7	"	118,003	283	197	*K7GS	"	291,168	418	288	*K0PK	"	99,550	218	181	LY2TS	"	1,321,600	1094	590	
										(OP: K6RJP)	"				*K2ZC	"	58,710	107	103	DL5GAC	"	1,251,312	1002	597	
					W8FV/5	"	113,405	240	185	*W9CF/7	"	252,774	452	279	*N9HDE/0	"	26,712	141	106	UA9AU	"	1,195,969	825	457	
					N0BUJ	"	108,672	226	192	*N0BV	"	216,812	445	268	*KEDL	"	13,896	84	72	OE3KAB	"	1,156,628	983	542	
					N3RC/7	"	106,680	240	210	*N4PD	"	210,240	315	240	*K06WKY	"	11,900	104	68	MM3N	"	1,119,008	1086	544	
					W0EA	"	106,872	283	208	*KAZD	"	168,000	245	210	*W8WTS	"	11,033	63	59						
					W9JPS/6	"	89,208	223	189	*K9WA	"	160,308	288	219	*W7PP	"	3,570	35	34	UA6CC	"	924,606	958	495	
					W7ON	"	62,629	176	161	*K4FTO	"	159,952	275	208						DF2TT	"	902,552	731	568	
					AA4GA	"	60,060	167	140	*W5AP	"	155,280	266	240	ST2AR	A	DX	12,273,684	3619	1052	RS5AJ	"	888,808	812	461
					KU7Y	"	51,356	199	148	*AD1L	"	154,638	258	213						DV1/J07KMB	"	872,088	703	358	
					N5KO/6	"	47,724	162	123	*N2CO	"	154,160	243	235	TC2X	"	11,979,738	3301	1013	V92PTT	"	851,730	699	445	
					K8BA	"	43,623	163	131	*W7VXS	"	147,972	277	236						JF9JTS	"	839,552	706	448	
					K1ESE	"	35,217	128	117	*K8DJSH	"	144,086	295	257	NH2T	"	11,438,122	3357	991	MD2C	"	803,997	763	471	
					W4AS	"	32,648	83	88	*ACST	"	137,402	280	236											
					KE1R/5	"	28,050	125	110	*K3KO/4	"	132,020	221	205						LY2XW	"	783,830	873	515	
					K4EDI	"	22,080	94	92	*K4CRV/2	"	129,010	247	194	PW0F	"	11,392,360	3539	1015	VE2FK	"	738,344	635	356	
					KX9X/1	"	17,640	96	90	*W7RV	"	124,848	242	204						RA/KE5JA	"	737,892	863	398	
					N8AGU	"	17,617	79	79	*N2JF/4	"	123,013	241	211	S50C	"	8,411,040	3126	1080	OK8DD	"	732,228	722	483	
					W6DR	"	17,574	106	87	*K0NW/6	"	118,372	266	202	KV4F	"	7,289,854	2603	923	DF0BV	"	714,420	662	486	
					N11BM/2	"	11,960	65	65	*N9JA	"	118,349	222	203	WC2W	"	7,141,549	2376	919	DF6RI	"	688,758	693	434	
					AB8RT/5	"	9,240	60	56	*A4SV	"	116,415	243	195						JN3SAC	"	661,213	562	413	
					K0NE	"	7,680	62	60	*W3AG	"	111,134	214	181	VCMSD	"	7,107,714	2537	1031	VF2A	"	659,526	599	383	
					NQ2W	"	1,827	30	29	*AK2B	"	107,476	237	194	EE8X	"	6,497,216	2304	839						
					A14RW	"	1,320	22	22	*K5FP	"	101,880	253	180						UA7G	"	647,716	695	452	
					K6ST	"	1,160	31	29	*WC4E	"	94,458	219	173						BV1EK	"	612,880	536	376	
					W1N1GIV/4	28	856,996	877	508	*N4DXI	"	89,806	198	166						JE1SGH	"	601,090	527	434	
										(OP: N48P)	"									OZ/DK3WE	"	487,518	645	386	
					AA8R	"	5,616	52	48	*AC6SL	"	86,580	249	180						JA1HP	"	476,858	518	378	
					W5KI	"	403	13	13	*K6CSL	"	84,600	224	180						J0JML	"	446,886	491	333	
					KZ7X	21	3,421,464	1728	888	*N4DJ	"	83,544	214	177						J01WK0	"	413,655	408	327	
										(OP: K6LL)	"									I0ZUT	"	409,752	538	337	
					KE1B/6	"	2,441,250	1393	775	*N3NZ	"	82,170	208	166						SV2HRT	"	404,392	576	384	
					KZ5OM/6	"	197,200	290	290	*AB1OP	"	81,144	182	161						GM1BSG	"	384,163	567	371	
										(OP: K6IUI)	"									G6T	"	384,163	567	371	
					N2YBW	"	89,957	188	181	*W4KAZ	"	54,510	150	122						PY2KJ	"	383,112	424	306	
					N2EIK	"	76,726	189	169	*KX7L	"	45,543	171	141						VE6LB	"	374,607	400	321	
					W5N2/4	"	66	9,108	66	*A6EE	"	34,715	152	131						J04CFV	"	325,470	451	285	
					NV5M	"	3,354	40	39	*KB9S	"	29,810	117	110						JK1EIQ/3	"	318,967	389	271	
					K6IUI	"	1,200	24	24	*N6AJR	"	28,514	142	106						JH8CXW	"	315,068	387	292	
					K7EIQ	"	350	14	14	*W6VAR	"	27,324	136	99						OK2PF	"	301,760	447	320	
					N2PP	14	3,210,697	1517	877	*K4FX	"	27,180	105	90						HL5Y	"	301,200	402	300	
					W4CU	"	59																		

JA1XUY	*	282,436	384	262
IT9ZAU	*	259,920	535	342
UN1F	*	244,374	325	241
DL4FDM	*	244,292	418	314
R2DW	*	231,945	358	329
RX1CQ	*	224,580	378	285
PV8ADI	*	212,598	341	254
XE1EE	*	211,464	292	264
JR9GMS	*	206,064	301	243
JT1NVH	*	180,206	299	259
UR4E1	*	177,219	359	29
YR0W	*	176,730	317	258
		(OP: Y09SW)		
JH4UTP	*	167,753	289	227
G3RWF	*	161,028	324	252
SV9CDL	*	161,008	294	232
DL1MDZ	*	152,994	330	253
JH1OVY	*	147,132	353	201
HB0/DFSAU	*	141,400	321	202
F5VML	*	140,616	323	248
G3PHO	*	139,442	297	226
JH1EAQ	*	131,236	258	172
UA6HO	*	120,992	241	199
J0PJD	*	97,774	204	166
JE1RW	*	93,964	207	169
EP2LB	*	89,219	196	174
ZL3PAH	*	87,468	186	148
OH6TN	*	80,729	209	179
SM5BMB	*	73,632	189	177
IK2AHB	*	61,056	183	159
I22DII	*	58,561	194	157
UT5UKY	*	53,001	175	151
DL7GEM	*	51,198	200	161
JH1QDB	*	45,252	132	108
R23FW	*	41,580	135	110
PA1B	*	39,216	175	152
YL2IP	*	35,712	152	128
J73AOZ	*	29,754	131	114
UT2AB	*	23,184	108	92
LUBEHR	*	21,414	90	86
IK1TYC	*	20,500	109	100
IK3OI	*	11,375	65	65
OH2ID	*	11,316	91	82
UR5IKN	*	6,292	53	44
VE2FXL	*	5,280	47	44
JG1SXP	*	4,619	32	31
G7DDN	*	4,004	50	44
VE8RT	*	3,738	46	42
PK5KC	*	1,144	22	22
MIG6TY	*	1,092	11	21
IS0/28SAR	*	45	11	3
IQ1TG	*	30	9	3
9A2U	28	718,704	825	552
		(OP: 9A3ZA)		
ZM3T	*	649,980	658	345
		(OP: W3SE)		
4X0A	*	196,588	300	236
		(OP: 4X1VP)		
EASUY	*	107,802	259	226
RN4AO	*	16,952	121	104
EASDM	*	10,921	69	67
G4IUF	*	6,264	76	72
OZ6OM	*	4,263	53	49
WP4WW	*	168	9	8
IW0HOU	*	21	3	3
A65BD	21	5,931,486	2325	957
		(OP: G4BWP)		
VE1OP	*	3,473,160	1580	843
ZC4LI	*	2,467,470	1315	706
EASFD	*	1,334,576	964	698
UA9FGJ	*	872,907	768	591
RA9UN	*	524,000	531	400
ON6LA	*	297,560	409	344
DJ9AO	*	285,048	421	321
VY1EI	*	236,082	340	294
OT1A	*	195,780	325	260
SA1A	*	176,421	389	271
		(OP: SM1TDE)		
IO3K	*	109,384	256	226
		(OP: IZ3NVR)		
UJ4JDD	*	106,027	244	229
9A2SW	*	65,860	192	178
HG50	*	21,708	114	108
IZ8VD	*	9,730	73	70
JH8DBI	*	2,905	35	35
UN7PL	*	12	2	2
9A4WY	14	3,240,882	1801	898
JA9CJW	*	1,339,566	876	571
J3DFC	*	1,111,936	815	544
YL2KF	*	970,148	970	593
ON1CB	*	200,100	386	300
UT5M	*	136,240	374	260
		(OP: UR5MID)		
IZ5NFD	*	123,192	283	236
JA3DAY	*	102,486	208	186
RW4WZ	*	84,460	227	206
IZ3OKG	*	53,820	228	195
JE2BDM	*	29,016	112	104
EW1FM	*	16,480	113	103
J5GSY	*	13,176	73	72
IN3UFW	*	1,848	42	42
JR4VEV	*	1,296	25	24
E71A	7	3,796,192	1583	776
G4IY	*	1,553,970	902	554
IK0YV	*	1,516,608	879	576
UN4PG	*	641,988	409	306
HB9CIC	*	494,492	550	362
UT8EU	*	273,560	329	280
ES1AN	*	267,336	419	282
RA/SM6LRR	*	172,326	302	231
		(OP: SM6LRR)		
VE3MGY	*	97,713	168	141
OE1ZKC	*	52,681	172	139
		(OP: JH4RHF)		
OK4JR	*	5,733	50	49
JH1APK	*	252	7	7
JA8CXX	*	192	6	6
JR2KPO	*	1	1	1
HA3LI	*	876,080	828	470
S58WW	*	455,952	588	354
DJ5EU	*	195,316	324	253
RA6CZ	*	164,754	326	243
ES2TI	*	15,066	90	81
IZ3ALW	*	8	2	2
9A2AJ	1.8	189,987	373	249
HA5NB	*	136,710	325	217
DG0OKW	*	18,616	98	98
PY5XH	*	4	4	4
VR2EH	*	30	5	5
*SP1NY	A	4,494,690	1991	930
*YU2A	*	4,260,060	1984	945
*RT9S	*	4,003,872	1612	716
*M5E	*	3,965,460	1804	860
		(OP: G0CKV)		

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