

---

# Results of the 2008 CQ WW DX 160 Meter Contests

BY ANDY BLANK,\* N2NT

**T**radition is what defines the CQ WW 160 Meter Contest. This year marks the passing of the directorship from the capable hands of Dave Thompson, K4JRB, to yours truly. Dave has been directing the contest since 1992, when he took over for the late Don McClenon, N4IN, whose log-checking ideas planted the seeds for today's techniques. The CQ 160 Committee and all participants wish to thank Dave for his years of service and dedication.

Without the tireless effort of volunteers such as Dave, the contest would not be what it is today. As a participant in CQ 160 contests since 1978, it has always been one of my favorite contests. We plan on continuing to improve the contest by adopting new log-checking techniques and making some progressive rule changes for our ever-changing sport.

## The 2008 Contest Highlights

This year's contests were highlighted by some very good conditions on both modes. The SSB contest might have been renamed the "VP6DX show," as Milt, N5IA, managed to pilot the DXpedition to a score of over 1 meg, fighting the summer static on Ducie. Judging by the QRM comments from many other stations, Milt made a lot of people happy with a new country on Top band.

Another highlight was the double win on both modes USA by "newcomer" Peter, K3ZM. Peter has Top band in his blood, being the brother of famous Topbander Jeff, K1ZM. Peter's new QTH in a salt marsh in Chesapeake Bay, VA has proven to be a real winner. On CW, at his brother's not so shabby QTH in Canada, VY2ZM was piloted to #2 in the world by Bill, W4ZV. Incredibly,

Bill's score was doubled by another fabulous effort by Jim, CN2R, with a score of 2.34 meg. Location, location, location!

## CW Results

There were no less than eight scores over 1 meg from the DX end in the CW contest!

The top score once again went to Jim, CN2R, with over 2.3 meg. The next highest score was by VY2ZM operated by W4ZV, just edging out Clive, GM3POI. These stalwart stations on the far coasts of their respective countries always prove to be the standard to beat. While not breaking records this year, the scores were huge nevertheless. CU2A, M2D, VE3EJ, and S51TA were the others with scores over 1 meg. Ted, S51TA, operated from a portable QTH on the water, proving again the value of location.

In the USA, Peter, K3ZM, used his VA beach QTH to edge out a great effort by Krassy, K1LZ, by less than 20K.

The magic of Top band shows that propagation can favor the north or the south at different times. This year it seemed not to favor a specific region for more than a short period. Proving this with an amazing effort was Dave, W5UN, who placed third, edging out N2NT and KT1V. Dave made more QSOs while still amassing a large multiplier from Texas. The East Coasters had more ten pointers "across the pond," but the extra stateside QSOs by Dave were enough to overtake them. Right behind these guys was another great effort from Texas by K5RX. N3UA, AA1K, K5GO, and WB9Z rounded out the top ten, all with scores over 500K. Great effort, guys!

On the low power end, a great score by TA2D outclassed 4L2M and VP9I by almost 100K. If you think low power is tough on Top band, try QRP! This year's winner in QRP was OK1IW, just edging out OL4W by working a few more mults in W/VE.

\*e-mail: <director@cq160.com>



*So that's where the big signal from CE1/K7CA comes from!*



The fantastic antenna farm at CN2R, where Jim puts out winning scores every year.



Here is Ted, S51TA, who operated Field Day style from a water pier to the tune of over 1-million points.

VE3FRX and W0GJ were the respective high scorers from W/VE. Having done QRP myself, I know how frustrating it can be on Top band. Congratulations to these fine ops.

On the multi-op side, another incredible effort by the gang at W8JI stood out this time. Tom's station broke its own 2006 record by more than 50K. The race for second in the USA between W2GD and WE3C was very close. GD's extra QSO total made the difference.

On the DX end, the OM gang from CT9M blew away the competition with almost 2.2 meg. It was another close race for runner up with 4O3A, OM7M, CU8A, and C4N finishing all within 100K. Again, the point advantage of being in another continent from the main activity centers proves to be the big difference.

### SSB Results

The VP6DX show ended in a score of over 1.05 meg! This is a bit short of the record set by D4B in 2005, but nevertheless a fantastic effort by N5IA. W1NA made the trek to IH9 and managed to finish second. Right behind was VE3EY, who finished third in the world from Canada, a tough thing to do.

### Corrections to the 2007 CQ WW 160 Results

**GJ2A** should have been listed as the winner for Jersey Islands.

**KQ8RP** should have been listed in the boxes as #2 Low Power USA SSB.

**XE1RCS** was listed as VE1RCS on page 25 regarding most W/VE multipliers. The call was correct elsewhere in the results.

**DJ6QT (YO3JR operator)** was a Single Operator CW entry not a Multi-Operator. This moves **DQ4W** to the Multi-Operator runner-up position and **DJ6QT** lands in the third-place Single Operator position in Germany.

**UA6LV's** name was incorrect in the plaque winner's box as Alan Biryukov. The correct name is Vlad Biryukov.

The Zone 4 Plaque Winner on SSB should have been **N8TR**, Peter Michaelis, not Don Kerouac, **K9NR**. Both are great scores, ranking #7 and #8 USA.

## 2008 PLAQUE DONORS AND WINNERS

### SINGLE OPERATOR CW

**WORLD BY W4ZV:** Winner Jim Sullivan, CN2R (W7EJ)  
**USA BY K4TEA:** Winner Peter Briggs, K3ZM  
**CANADA BY Alabama Contest Group:** Winner Jeff Briggs, VY2ZM (Op. Bill Tippett, W4ZV)  
**ZONE 3 USA BY N5IA:** Winner Lee Finkel, KY7M (@K5RC)  
**ZONE 4 USA BY K4WA:** Winner Dave Blaschke, W5UN  
**ZONE 5 USA BY N4PN:** Winner Krassy Petkov, K1LZ  
**AFRICA BY WS9V:** Winner Frantisek Pubal, 7XØRY (Op. Valery Komarov, RD3AF)  
**ASIA BY K4SX:** Winner Valentin Benzar, C4M (5B4AGM)  
**EUROPE BY K9DX:** Winner Clive Penna, GM3POI  
**SOUTH AMERICA BY W4NU:** Winner Alan Van Buren, CE1/K7CA  
**JAPAN BY Alabama Contest Group:** Winner Masaki Okano, JH4UYB  
**NORTH AMERICA by CQ (N4IN Memorial):** Winner Herbert Schoenbohn, KV4FZ

### SSB

**WORLD BY N4NX:** Winner Milt Jensen, VP6DX (N5IA)  
**USA BY K4JRB:** Winner Peter Briggs, K3ZM  
**CANADA by Alabama Contest Group:** Winner Nikola Letic, VE3EY  
**ZONE 3 USA BY N4TMW:** Winner Jim Stevenson, W6YI  
**ZONE 4 USA BY N4XMX:** Winner Jerry Rosalius, WB9Z  
**ZONE 5 USA BY K1PX:** Winner John Evans, N3HBX  
**AFRICA BY WB4ZNH:** Winner Pier Iovino, IH9/W1NA  
**ASIA BY NT4TT:** Winner Hovik Tarzyan, EK6TA  
**EUROPE BY WS9V:** Winner Jens Röhme, OZ1DD  
**NORTH AMERICA by CQ (K2EEK Memorial):** Winner Tony Ramos, KP4KE

### MULTI-OPERATOR CW

**WORLD BY N4RJ:** Winner Madeira Group, CT9M (OM3BH, OM3GI, OM3RM Operators)  
**USA BY W8UVZ, W0CD, and K8GG:** Winner Tom Rauch, W8JI (K1ZZI, VE7ZO, W8JI, W8XR, WA2MBP, WW4LL Operators)  
**Zone 3 by 4X4NJ:** Winner Larry Pace, N7DD (W8TK, N7DD, KC7V Operators).

### SSB

**WORLD BY SOUTHEASTERN DX CLUB:** Winner CN3A Contest station, CN3A (IK2QE1, IK2SGC, CN8WW, Operators)  
**USA BY WB9Z:** Winner John Rodgers, WE3C (KQ3V, W3FV, WE3C Operators)  
**Zone 3 by 4X4NJ:** Winner BNCC, N7AP (N7RQ, K8IA Operators)

## TOP 10 SCORES

### CW SINGLE OPERATOR USA

K3ZM/4.....	773,430
K1LZ.....	755,040
W5UN.....	669,476
N2NT.....	663,187
KT1V.....	638,365
K5RX.....	618,205
N3UA/4.....	573,461
AA1K/3.....	568,216
K5GO.....	525,096
WB9Z.....	500,340

### VE (TOP 5)

VY2ZM.....	1,591,564
VE3EJ.....	1,052,226
VE3EY.....	889,720
VE2TZT.....	851,920
VE3DZ.....	838,626

### QRP (TOP 5)

OK1IW.....	121,847
OL4W.....	117,500
SP2DNI.....	87,548
VE3FRX.....	74,094
S59D.....	71,226

### DX

CN2R.....	2,348,214
VY2ZM.....	1,591,564
GM3POI.....	1,572,193
CU2A.....	1,284,324
M2D.....	1,108,256
VE3EJ.....	1,052,226
S51TA.....	1,029,120
OZ7YY.....	1,008,630
CT1JLZ.....	976,131
YU1LA.....	908,622

### LOW POWER (TOP 6)

TA3D.....	488,376
4L2M.....	389,781
VP9I.....	380,776
TA2RC.....	352,336
YT5A.....	349,654
DJ9VA.....	333,333

### LOW POWER W/VE (TOP 6)

VE3NE.....	332,948
VE3MGY.....	283,437
VE3RZ.....	237,096
W4IX.....	225,984
KG4W.....	168,101
K1EP.....	159,736

### W/VE QRP (TOP 5)

VE3FRX.....	74,094
VA3YT.....	70,200
W0GJ.....	68,747
K0PK.....	67,500
NK8Q/3.....	59,850

### MULTI-OPERATOR

CT9M.....	2,196,132
4O3A.....	1,577,610
OM7M.....	1,518,429
CU8A.....	1,476,288
C4N.....	1,461,832
9A2AA.....	1,334,704
MD4K.....	1,285,596
OM8A.....	1,175,592
HG8DX.....	1,168,497
RW2F.....	1,085,364

### MULTI-OPERATOR (TOP 3) USA

W8JI/4.....	1,039,036
W2GD.....	747,370
WE3C.....	719,420

### SSB SINGLE OPERATOR USA

K3ZM/4.....	391,160
WB9Z.....	353,760
N3HBX.....	347,886
W0EWD.....	286,832
W3BGN.....	284,130
K5RX.....	274,257
KU1CW/0.....	252,336
K2AX.....	214,414
W3TS.....	213,516
N4PN.....	209,160

### VE (TOP 5)

VE3EY.....	734,156
VE3AP.....	308,894
VE3CX.....	266,700
VA5DX.....	198,009
VO1NO/VE3.....	196,719

### QRP (TOP 5)

VA3YT.....	40,280
OK7CM.....	19,602
W4TMR.....	19,050
S59D.....	14,400
DL7UMK.....	13,104

### DX

VP6DX.....	1,054,868
IH9/W1NA.....	736,848
VE3EY.....	734,156
CT3DL.....	594,832
OZ1DD.....	489,630
RW2F.....	458,136
SP7MTF.....	391,919
K3ZM/4.....	391,160
ES5RW.....	382,670
WB9Z.....	353,760

### LOW POWER (TOP 6)

KP4KE.....	349,479
D4C.....	222,600
DO2ML.....	200,464
HI3T.....	195,888
HA8BE.....	128,797
OK1FPS.....	117,728

### LOW POWER W/VE (TOP 6)

VE3NE.....	112,057
VE3MGY.....	109,648
W0GJ.....	87,104
KD4POJ/0.....	77,340
VE3FRX.....	76,788
VE3RZ.....	74,677

### W/VE QRP (TOP 3)

VA3YT.....	40,280
W4TMR.....	19,050
N8XA.....	12,212

### MULTI-OPERATOR

CN3A.....	714,735
HG8DX.....	581,700
WE3C.....	496,431
XE1RCS.....	471,431
E17M.....	428,546
LN9Z.....	398,664
HB10DX.....	375,487
S56P.....	366,990
ND8DX.....	354,564
C6ANM.....	337,920

50K separated the race for top single op in the USA, and again Peter, K3ZM, emerged the winner. Closely following behind were WB9Z and N3HBX. On the low power side in W/VE, a good old-fashioned dog fight between VE3NE and VE3MGY ended with Lali, NE on top by only 3K!

The clear winner in the multi-op category was the effort by the Italian group at CN3A. They were able to outscore the HG8DX group by over 130K.

In low power, Tony, KP4KE, with a fine 349K score was the leader, with D4C runner-up. VA3YT and OK7CM were the top two scorers QRP. QRP on Top band is hard enough on CW, but on SSB it is ridiculously hard. Congratulations to these guys for sticking it out!

## Club Competition

It is obvious that the Bavarian Contest Club takes the CQ 160 Contest very seriously! For the third straight year they won the competition with over 112 entries. There were 70 entries from the Potomac Valley Radio Club, good enough for second place. Following these great clubs were the Rhein Ruhr DX Association, Contest Club Ontario, and the Slovenian Contest Club. Remember, the club competition is for fun and bragging rights only. Please try to use the proper name of your club when filling out Cabrillo logs. There were so many different spellings of some clubs that it was sometimes hard to determine the proper entry.

## Notes on Log Checking

2008 was another record-setting year log wise. There were 1860 CW and 926 SSB logs received.

This year's logs were scored using the same software used in many other contests. There are log checking reports available to any entrant who would like to see them. Send an e-mail to <director@cq160.com> requesting the report and we will forward it to you. All logs were checked with the same software and scoring system. We hope to promote more accuracy in copying and logging. Any penalties administered are equal for all entrants.

Although it was not explicit in the rules for 2008, we checked logs for "operating time." The goal was to set a standard for off times. The good news is that most stations did not require any adjustments. There were a few logs over the time limit, but none were grossly affected. Off times are well-defined in the new rules.

Another controversial item during both the CW and SSB weekends was the use of the "Low Band Chat Channel" by some entrants. The channel provides an internet chat between stations. Again, while not expressly forbidden in the rules, it is not consistent with the intent of the contest to coordinate or check QSOs by any method other than radio.

There were a few stations with very big scores that voluntarily withdrew their entries and reclassified as check logs. There was much discussion about this after the contest, resulting in these actions. Other logs were submitted with the caveat that contacts made with chat-channel assistance would be removed. The committee checked all logs against the chat logs and made the necessary adjustments. The 2009 rules specifically disallow the use of any QSO assistance such as chat channels.

## Committee, Awards, and Expanded Results

I wish to thank the following committee members for their help with log checking and other administrative duties: N6TR, KL7RA, K1EA, K1DG, and again K4JRB for making it a smooth transition. Also thank you to K5ZD and K3BU for their help with the newly revamped <CQ160.com> website.

We hope to have all awards from previous years sent out very soon. This year's awards should go out very quickly also. A big thank you to all the trophy sponsors, whose generosity helps keep the awards program alive. For 2009, please check the <CQ160.com> for a list of trophies and sponsors.

For a list of the guest ops and members of multi-op teams, plus more QRM, see the expanded results of the contests on



*No, it's not K1ZM but his brother K3ZM. Peter operated his Virginia salt-marsh QTH to take the top spot on both USA.*

the CQ website: <[www.cq-amateur-radio.com](http://www.cq-amateur-radio.com)> and also <[CQ160.com](http://CQ160.com)>.

### Changes for the 2009 Contest

The rules for the contest have been revamped (for the complete rules, see the November issue of CQ). Here are some of the highlights:

1. The dates for the 2009 SSB contest are a week later than usual to avoid conflict with the ARRL DX Contest. This is a calendar anomaly and the contest will return to the last full weekend in February in 2010.

2. The start and end times of the contests have been shifted two hours earlier in response to requests from the 160 contesting community.

3. The exchange for DX stations has been changed from RS(T) and country to RS(T) and CQ zone.

4. A new Single-Operator Assisted class has been added to permit the use of clusters, skimmers, etc.

5. A 40-hour maximum operating period has been added for multi-op entries.

6. Provisions have been added regarding remote operation.

Please check <[CQ160.com](http://CQ160.com)> for the complete rules and other information.

See you in the 2009 contests!

73, Andy, N2NT

### CW QRM

Great fun! Eleven JAs and an RWØ in the log on Sunday morning ... **AA1K**. I believe this is my first ever 160m operation. Just put up a 40m wire vertical on a Jackite pole, found it would tune for VSWR on 160m, but almost no one could hear me. Lesson learned: 40m vertical is better than a dummy load on 160m, but not by much ... **AA4Q**. My first 160m contest. Very strange conditions not similar in other bands but all went OK considering that I was using 100w output. Was able to work US and Canada, never thought to work them. I am looking forward to next 160m contest, CT1DRB/OK8RB, David ... **CT1DRB**. TNX to Jose, CU2CE, for offering his fine QTH. TNX to Martti, OH2BH, for taking care of the logistics ... **CU2A**. Our first 160m contest from Flores island/Azores. Great propagation and we worked the 160m WAS during this contest ... **CUBA**. 2009 I will take part in this competition again! With so lively participation I had a lot of fun in the contest. Rig: 100 watts to

an inverted dipole ... **DF5BM**. First time on this contest, lots of fun, cu next year! ... **DJ5HD**. What a super contest! For the first time on 160m and then I got 48 DXCCs! Wow! ... **DK1AX**. Just one word "Great." Although all were problems I tried to do the best. Anyway I really enjoyed and work my last state (ND) to completed my 9BWAS, so could it be really better? hi hi. Thanks again to all ... **EA6SX**. First contest use of K3. Excellent. Antenna fell down and had to make temporary repairs in the dark! Condx variable ... **G3XGC**. Friends say, how do you hear so well on 160. I say very quiet location! So what happened on Friday!! S5 noise till 2230 on Sunday when it fell to S1! Do you say Sod's Law in USA?! Conditions variable, no JA opening, and most USA down in strength from normal. Very high level of QRM from EU for whole 48 hrs. Still my favorite test of the year ...

**GW3JXN**. It was a nice contest but local noise was not below S9+10 dB all over the time. My short antenna worked fairly well. Thanks for Qs, see you next year! Rig TS-530SP 100w into an end-fed 21m long wire above flat roof ... **HA2MN**. Unfortunately on afternoon of 28 January we got a heavy wind storm (120–150 km/h), so I must down the antenna! ... **HG8ØMRASZ**. My small contribution to a fantastic CQ WW 160. ... **IZ7AUH**. Entry on single-op low power. The condition was almost same as the last year. The first day I could QSO with W8JI (Georgia) . And I QSO with 3W3W, HG8DX. But we had very heavy local power supply nose on 160m band. I was using MV (micro vert) antenna which is only 3.6m long. It was very good. This small MV antenna has same performance as a full size dipole antenna!! And I used two types tranceiver, FT-1000D and Elecraft K2!



The gang at N2CW (W2GD on CW). Left to right: W2USF, N2OO, and W2CG.



Here is Bill, W4ZV, at the key of the VY2AM superstation on Price Edward Island, good enough for second place world!

Narrow band blocking with the K2 was the excellent! I like this contest very much because I can QSO with many famous Top bander OM all over the world ... **JE1SPY**. I actually heard a European! ... **K0SRLL**. After such a dearth of QSOs from DU9/NØNM, this contest has come alive in EPA. Amazing what 7 hours can produce – 100K! ... **K3QF**. I worked my first European station this year on 160m with 5 watts QRP ... **K3TW**. Lots of fun. Had to QRT each evening when the XYL hit the

sack cause I was setting off the fire alarm – hi ... **K4UEE**. Worked more than double the number of Europeans and JAs as ever before. ... **K5RX**. Good conditions both nights, lots of stations and QRM. Always a thrill to pick up new DX on 160 meter band ... **K7QBO**. Low power but my inverted L at 110 ft. seemed to work FB, made a shielded loop during daylight on Saturday. It sure made the sig to noise much better. Put it up in a light snow storm, hi. As my old Elmer used to say, "They

work better that way" ... **K8OT**. Thanks to John Evans, N3HBX, for letting me use his station. I only destroyed one amplifier. I worked not one but TWO JAs, the two first for me on 160. Thanks for the QSOs ... **KD4D**. My Gruman Canoe makes a good 160 meter antenna ... **KD7GIM**. Cold, windy, and rainy, great contesting weather by a warm radio on Top band with a hot toddy. Contesting at its best ... **KN4Y**. Many thanks to Tom, K5RC, for allowing me to pilot his superstation. It was cold and snowing outside, but the band was HOT inside the shack! Terrific openings on Saturday to Europe and Asia ... **KY7M**. My best effort EVER. Superb DX conditions to the Mid/Far West USA first night ... **M2D**. Glad to see everyone and have to say the conditions were AMAZING. EU and the West Coast at the same time. It's been a good season on the Top band! ... **N2WN**. Wow! Most DX I have ever worked on 160 in a contest! ... **N5AW**. Heard many more mults, but we are still too weak to work them all. More than 1100 QSOs were fun anyhow, but only 47 W/VE shows our weakness on 160m DX ... **OE2S**. Thanks for another contest! Our 160m setup is not match to some others but we had fun! ... **OH4A**. Good propagation for QRP stations. But neighbors' plasma TV generated very big QRM. Thank you for fantastic contest ... **OL4W**. We were using the location of our club P14ZI, an industrial area in Hengelo in eastern part of Netherlands. There are a lot of factories very close to us so almost no space to put up 160m antennas. Just before the contest we set up a Beverage in direction off Japan. This worked very well also for UA9's. Signals from stateside could be better, but overall we had great fun and were happy with the results ... **PA1TT**. Thank you for fb contest! ...

## 2008 CLUB SCORES

(Minimum of 3 three entries required for listing)

BAVARIAN CONTEST CLUB .....	14,914,468	OM3KHO .....	650,199
POTOMAC VALLEY RADIO CLUB .....	9,609,774	VRHNIKA CONTESTERS .....	642,831
RHEIN RUHR DX ASSOCIATION .....	8,205,609	ORENBURG CONTEST CLUB .....	641,045
CONTEST CLUB ONTARIO .....	8,202,742	ROCHESTER DX ASSOCIATION .....	627,248
SLOVENIAN CONTEST CLUB .....	6,685,539	OL1A .....	561,246
YANKEE CLIPPER CONTEST CLUB .....	6,676,307	WESTERN NEW YORK DX ASSOCIATION .....	539,618
CONTEST CLUB FINLAND .....	5,328,006	VERON .....	494,150
FRANKFORD RADIO CLUB .....	4,947,537	PLIS PLAI CONTEST TEAM .....	492,950
SOCIETY OF MIDWEST CONTESTERS .....	3,397,088	NORTH COAST CONTESTERS .....	483,746
SP DX CLUB .....	3,037,228	BRITISH COLUMBIA DX CLUB .....	477,633
URAL CONTEST GROUP .....	2,952,294	OK2KRT .....	466,636
HA DX CLUB .....	2,846,826	SRR .....	409,659
LBCC .....	2,822,193	WESTERN WASHINGTON DX CLUB .....	403,641
SOUTHEASTERN DX CLUB .....	2,701,851	SOUTHERN CALIFORNIA CONTEST CLUB .....	383,829
BELOKRANJEC CONTEST CLUB .....	2,680,990	OMSK REGION RADIOCLUB .....	362,329
FLORIDA CONTEST GROUP .....	2,402,037	ARM .....	344,311
TEXAS DX SOCIETY .....	2,218,413	CAROLINA DX ASSOCIATION .....	343,959
CHILTERN DX CLUB .....	2,129,795	ALRS .....	306,222
LATVIAN CONTEST CLUB .....	2,089,491	WILLAMETTE VALLEY DX CLUB .....	296,864
KAUNAS UNIVERSITY OF TECHNOLOGY RADIO CL .....	2,082,614	WWYC .....	295,120
MAD RIVER RADIO CLUB .....	2,055,407	SOUTH EAST CONTEST CLUB .....	294,356
CROATIA CONTEST CLUB .....	1,968,851	AUSTRIAN CONTEST CLUB .....	277,412
TARTU CONTEST TEAM .....	1,953,761	EAST COAST CANADA CONTEST CLUB .....	264,447
TENNESSEE CONTEST GROUP .....	1,913,579	SPOKANE DX ASSOCIATION .....	215,090
GRAND MESA CONTESTERS OF COLORADO .....	1,877,561	CRK .....	196,554
ALABAMA CONTEST GROUP .....	1,742,115	TOP OF EUROPE CONTESTERS .....	194,975
BLACK SEA CONTEST CLUB .....	1,497,959	MARITIME CONTEST CLUB .....	192,287
RUSSIAN CONTEST CLUB .....	1,428,619	CENTRAL SIBERIA DX CLUB .....	184,563
UKRAINIAN CONTEST CLUB .....	1,336,493	WEST VIRGINIA DX ASSOCIATION .....	183,103
CENTRAL ARIZONA DX ASSOCIATION .....	1,293,590	SP CONTEST CLUB .....	171,548
MINNESOTA WIRELESS ASSN .....	1,260,054	WEST PARK RADIOPS .....	164,880
DANISH DX GROUP .....	1,130,436	RADIOAMATOR .....	154,208
OK2OMM .....	1,077,946	MARRAD .....	150,412
YUCC .....	1,053,544	VLADIMIR RADIO CLUB .....	143,518
DEUTSCH AMATEUR RADIO CLUB .....	1,011,769	SUCC .....	139,929
NORTHERN CALIFORNIA CONTEST CLUB .....	951,392	CTRI CONTEST GROUP .....	134,198
HUDSON VALLEY CONTESTERS AND DXERS .....	929,677	RADIOCLUBUL NOSTRU DIN CONSTANTA .....	115,655
KANSAS CITY DX CLUB .....	925,704	OKLAHOMA DX ASSOCIATION .....	107,267
DOZEN DASHES CONTEST CLUB .....	922,632	RU-QRP .....	99,321
CONTEST GROUP DU QUEBEC .....	919,495	ARGO .....	44,442
TOWER CONTEST GANG .....	884,053	BERGEN AMATEUR RADIO ASSOCIATION .....	37,370
OKDXF .....	759,944	METRO DX CLUB .....	21,270
LOW COUNTRY CONTEST CLUB .....	750,415	TEMIRTAU CONTEST CLUB .....	4,141
MAGNOLIA DX ASSOCIATION .....	670,504		

**RA3BQ.** That was a Field Day effort with portable TX antenna. Location was extremely low noise but the weather was terrible! Next year will try once more! ... **RV6LFE.** After the contest I received mail from 3A/ON5NT who tells me that he made only one contact on 160 and that was me! ... **S57DX.** The truth is: "You can't have too many antennas" ... **SP5WA.** Thanks for the great contest again! At the end of the contest was great cndx to NA, but my PA had broken in two hours before the end of the contest, so last two hours I worked only on FT-1000D. See you all! ... **UU4JMG.** Wind blew down folded inverted-L antenna a week before contest. Our best results yet for CQ contest. Seems central Canada took the weekend off. Sure missed MB & SK ... **VE2OJ.** Very odd condx the first two nights. First night Beverages worked very well. Second night not much f/b on noise. Nearly missed some mults Sunday as clock off! Low 40 ft. dipole this time as main one taken down by errant snowmobile ... **VE3PN.** 160 sounded like 20 during the CQ WW DX contest! I hope I can get more time next year ... **VE6ZC.** Propagation was great. The first European station was heard at 01:40 GMT. Hope to improve TX ant next year ... **VK2CCC.** Outdoor portable station at hilltop of Lamma Island at +8 deg C using FT-450AT, 50AH car battery and 250m long-wire antenna ... **VR2ZQZ.** Great conditions and good operators! My 55th year of contesting! ... **W6PU.** This weekend put me over the 100 country mark for DXCC. What a blast! ... **W8TN.** Webster Bandsparner mag-mounted on car, \$15. Wire to load Bandsparner on 160, \$5. Twenty contacts in four states in about an hour's operation? Priceless! ... **WA6HZT.** After 11 years of SSB participation we tried CW and love it. CU next year ... **XE1RCS.** Mni tnx for first 160m contest. Mni 73's ... **YO5CCX.**

### SSB QRM

Fun contest as usual, but the high noise level took a little edge off. Next year I am going to make an effort to work past 10:00 PM in the evening, hi ... **AC9S.** Biggest thrill was working VP6DX. I contacted 41 states & DC, 8 provinces, and 31 DXCC countries. I still have to install a real DX antenna ... **AF1T.** Multi VP6DX is the best QSO in last 5 years! ... **DG7RO.** Great fun if very slow at times. QSO numbers down from previous years but more states. Thanks to everyone who called us ... **E17M.** Very good contest. It's my first experience in CQ WW 160M. Cu next year. Tnx for the QSOs ... **F4FLQ.** 100w into 41m wire sloped from 23m. Just a few points to the big pistols. Was fun. Hope one day I get space for real 160m antennas ... **HB9TQG.** Long time since I've been on 160. Large new country lot plus Ten-Tec Omni VI+, Hercules II, inverted L antenna, and good ops made the contest fun. ... **K4AVX.** I certify that, other than caffeine, no performance enhancing drugs or steroids were used during this contest. Also, no small animals or children were harmed ... **K7ACZ.** Always enjoy the 160 tests. Still the gentleman's band! ... **K9FO.** My OM (Russ, N8MWK) wanted me to do this contest. He was right; everyone likes my YL voice even with 5 watts. I was very surprised to work 33 states, one province, Mexico, and Bahamas with my 5 watt QRP rig ... **KD8EIR.** Good conditions, but many problems with PA. So I did stop the contest. See you next year I hope ... **LX1ER.** Not easy with 10w but glad to take part and thanks to all who pulled my weak signal out of the noise. ... **M3RCV.** A car hit a power line pole just down the road but we didn't lose power! Local conditions at our site not favorable this year. Our rookie team did a great job! ... **N2CW.** Best conditions in all the years I have entered this contest! However, the QRN and QRM (some of it deliberate) was horrendous! Beat last year's score by quite a bit ... **N3HBX.** Ears shot. Storms all weekend. Sounded like summertime. Good EU opening for about 30 minutes on Saturday night. First time ever to work all 50 states in a contest on SSB. Nice to work VP6DX/ Ducie with a great signal from there ... **N4PN.** First operation on 160m. Worked over half of the states with 100w from my mobile installation ... **N8CBW.** Steve, KD5LNO, who returned to Texas last fall flew in for the weekend and was rewarded with what had to be the best propagation for this contest that I can remember ... **ND8DX.** It was refreshing to be in a contest on a band I do not usually get on a lot. Lots of things to learn and surprisingly many stations to be worked within the few hours I was on. Transmitting and receiving on a shunt-fed tower was not easy but not as hard as expected. Thanks for the QSOs! ... **OE6MBG.** The inverted L-antenna that we had created for the occasion blew down in a major storm the day before the contest, so the first night was "just" on a dipole. Lots of contacts, but no DX until Saturday, when we managed to get the original antenna back up. Lots of fun, but quite slow ... **OZ1ADL.** First time active in this contest, age 69 years and licenced in 1976 ... **PA3ASE.** I rarely operate any of the voice modes, but when it comes to operation on Top band, especially in a contest like this one, I WILL make an exception. Many thanks to all who took the time to stop at my frequency and give me a QSO ... **VE3CUI.** What a ride! I also want to thank the VP6DX team for allowing me to indulge myself a bit and operate the contest single op. It was the opportunity of a lifetime. Thanks fellows, blokes, compadres for fighting the QRN to give me a contact. 73 de Milt, N5IA op of VP6DX ... **VP6DX.** It was a great contest. Working ND on only the thirrd QSO and getting HI as the second to last, with loads of fun in between! ... **W0MR.** 90 years old, and 68 years contesting! ... **W4OGG.** First time with Beverages and I'll never be without them again! Conditions were not as good as the CW contest ... **W8GP.** Pleased to run again the SSB contest, despite my aging ears! Hard to fight the tremendous Central European QRM! hi. Mediocre condx so only few DX QSOs and no new ones ... **YO2IS.**

(Continued on page 103)

# Results of the 2008 CQ WW DX 160 Meter Contests (from page19)

Number groups after calls denote score, total QSOs, WVE multiplier, countries worked. Total multiplier is the addition of the WVE and countries. Multi-op scores follow single-op listings. An asterisk (\*) denotes low power. /Q denotes QRP. State, province, and country certificate winners are listed in bold.

## 2008 CW RESULTS

### SINGLE OPERATOR

#### NORTH AMERICA

CONNECTICUT			
K1ZZ	467,058	1032	55 59
N1ZZ	256,095	720	56 49
K1K1	163,800	532	52 38
N4XR/1	101,011	392	51 32
*W1QK	81,918	391	52 22
W1WFF	66,594	391	47 19
*K1BV	25,327	237	40 3
*K1OO	21,436	181	39 7

#### MAINE

K1JB	143,190	555	54 32
*K8PO/1	127,251	490	51 30
AC1O	54,792	224	49 23

#### MASSACHUSETTS

K1LZ	755,040	1339	56 65
K5ZD/1	260,916	664	57 45
*K1EP	159,736	721	55 27
W1CSM	91,134	258	47 36
*N1RL	55,440	314	49 17
W1TO	42,738	322	38 13
*N1ZY	21,252	217	39 3
*K1XM	13,392	151	33 3
*W1SRB	465	14	15 0

#### NEW HAMPSHIRE

K1TV	638,365	1167	56 59
W3UA/1	180,285	494	54 47
*N1HX	126,603	578	53 28
*AA1SB	10,450	118	36 2

#### RHODE ISLAND

K1DFT	101,529	359	50 37
*K3IU/1	28,322	246	44 5

#### VERMONT

W1SJ	119,184	562	53 25
KB1ODO	10,440	147	30 0

#### NEW JERSEY

N2NT	663,187	1287	57 62
WA2VVA	141,570	555	54 36
N2VW	63,726	246	49 29
W2LE	54,384	311	49 17
*K1JT/2	44,148	356	44 8
K2TTT	40,721	418	42 1
*KD2MX	35,598	293	48 3
*K2MK	34,715	277	46 7
*N2WKS	31,208	287	44 3
K2PS	28,832	185	36 17
*N2MH	21,566	233	41 0
N2CG	21,369	132	34 17
*K1TN/2	14,800	157	38 2
W2NO	12,950	140	33 4
*K2YLH	10,476	126	35 1
*WA2ALY	9,321	102	37 2
*WA2RY	8,908	116	33 1
K2CNB	7,884	93	36 0
*K2RET	7,280	73	31 4
*N2JST	1,050	35	15 0

#### NEW YORK

N1EU/2	478,440	1074	58 62
WF2W	382,236	1128	57 49
N2CU	262,994	886	56 41
N2WK	222,248	594	55 49
K2FU	212,888	817	55 37
N2YB	199,468	719	54 40
K2YR	178,224	533	50 44
W2LK	133,988	423	50 36
WB2ABD	124,844	356	52 40
*KD2RD	105,850	580	52 21
*K2JF	92,053	496	50 23
KW2J	72,534	434	53 13
NA2M	70,532	298	52 25
W2TB	66,504	376	52 16
*W2LB	61,503	466	50 7
*N2LQ	58,640	221	52 28
K2ONP	55,854	335	46 12
K2KO	54,670	198	50 27
*W2LC	48,832	316	43 13
WA3AF/2	45,276	155	49 28
*WA2MCR	43,659	257	48 15
N2NI	39,370	194	44 18
*K2DB	27,876	270	46 0
K2NNY	27,456	262	41 3
W2NRA	21,715	217	39 4
*A2IN	21,028	249	38 0
W1AQ/2	20,332	145	39 13
N2BZP	14,430	150	36 3
*N2ZN	14,157	149	37 2
*WA2YSJ	13,642	151	37 1
W2RR	11,856	58	45 12
*N2RI	8,425	146	25 0
*K2XA	7,236	67	30 6
*K2TV	6,318	105	26 0
*WB2OOO	4,644	77	26 1
W1JO	4,048	76	23 0
*WB2TPS	1,520	40	16 0
*N2SOW	480	17	12 0

#### DELAWARE

AA1K/3	568,216	1246	57 64
K3MO	119,110	418	53 33

#### DISTRICT OF COLUMBIA

W3DQ	65,520	415	50 13
------	--------	-----	-------

#### MARYLAND

KD4D/3	446,656	1167	58 54
K3Z/1	801	101	48 4
N3UM	172,656	650	52 36
N3AM	163,215	81	55 26
K3DI	148,057	547	56 35

K3STX	109,470	464	53 29
*N1WR/3	101,536	495	49 27
NA3M	76,059	240	46 35
W3ZZ	64,988	244	44 33
W3UL	34,656	306	42 6
*K3WI	23,001	213	29 12
*NS3T	21,364	164	39 10
*W3MR	14,616	148	37 5
*N3COB	8,184	106	32 1
W3WB	3,753	40	19 8
K9LU/3	2,354	46	22 0

#### PENNSYLVANIA

W3BGN	479,906	1073	57 61
W3TS	329,497	1064	57 46
W3GH	302,257	838	56 53
W3TDF	199,143	801	54 33
W3SO	108,240	525	55 25
K3QF	99,708	328	50 34
*N3GJ	94,350	497	54 20
*KA3OLF	92,492	453	54 22
K4JLD/3	63,680	256	51 29
*NA3P	58,311	440	50 7
*KN3A	27,600	227	43 7

W4SAA	193,545	528	51 48
N6AR/4	192,159	457	52 47
K4PB	137,837	417	52 45
W2TX/4	131,586	449	52 39
*W4AA	119,768	393	49 39
W7QF/4	86,486	252	45 38
*NS9I/4	78,736	354	49 27
N4PSE	72,400	248	45 35
K1UM/4	48,090	136	34 36
*K4GKD	39,329	155	40 27
*N4TB	35,554	239	46 12
*N4EK	34,428	225	42 15
*KN4Y	17,466	193	38 3
*K4JAF	15,930	93	37 17
W4WX	15,400	91	34 16
*K4BK	6,784	103	31 1
W4OV	5,120	57	25 7
*KE4REM	2,668	55	22 1
W4SDL	2,548	43	26 0
*W4SLZ	1,870	41	21 1
*W8IM/4	1,640	34	17 3
*W6BXO/4	1,462	33	17 2
*NM1A/4	560	16	15 1
*N4WO	380	19	10 0

K4YKZ	49,724	307	45 17
*WB4MSG	44,658	354	46 8
*W4TMO	41,015	234	51 14
*K4OPL	35,224	238	44 12
*K4CZ	27,510	206	40 2
KZ2I/4	25,674	182	46 20
*N4MIO	23,760	222	45 3
*KZ1X/4	23,154	181	43 8
*K4SV	16,606	151	42 4
N4TL	11,285	125	34 3
NX9T/4	10,793	92	38 5
AE4EC	7,242	96	31 3
*W4KAZ	5,313	70	32 1
*W4WNT	240	20	10 0

#### SOUTH CAROLINA

AF40X	312,394	932	55 54
W7DO/4	95,285	337	49 36
*AA4NN	75,789	520	52 11
N2FY/4	58,800	269	49 26
*W4IT	46,976	278	47 17
N4USC	22,672	181	45 7
N4UFP	12,420	66	33 13
*W4NE	8,865	77	40 5

N2QT/4	107,160	340	55 40
W3BP/4	97,418	519	45 22
N4BJ	73,438	368	50 23
N3J/4	66,150	336	51 24
W2YE/4	66,000	311	49 26
*W4YE	53,105	300	48 17
W4WH	52,762	283	41 21
K4EU	52,110	392	42 12
*K7CS/4	49,130	344	47 6
*W4AJUK	40,432	291	49 7
W4PM	39,160	303	48 7
N2FT/4	36,108	243	47 12
K4RDU	34,944	293	47 5
N4MM	34,648	206	47 14
K7CMZ/4	31,521	196	44 13
W4UJ	27,589	239	41 6
*WKSX/4	24,760	272	39 1
*N3BM/4	17,179	181	39 2
*W4GM	16,236	152	39 5
*K3MZ/4	15,498	168	39 2
*K4FTO	15,429	183	36 1
*N4BC	14,147	144	40 3
*K4MX	13,923	146	37 2
*K1OP/4	13,572	162	34 0
*A4MH	13,536	164	36 2
*NSIE/4	8,320	135	30 0
*AD4TJ	5,796	93	27 1
*W4VIC	5,740	92	28 0
*K13O/4	5,580	78	29 1
*W4EUL	1,377	36	17 0
*N4UXA	-32	0	2 0

ARKANSAS			
K5GO	525,096	1366	58 59
*NSDRB	26,765	219	48 5
*K05J	12,040	134	39 1
*K5VR	3,332	55	28 0
W5KI	3,250	55	26 0

LOUISIANA			
*K5ER	12,432	133	39 3

MISSISSIPPI			
W5XX	117,924	374	51 42
W5MPC	96,871	543	53 20
W5LS	74,232	385	52 20
N4OGW/5	37,572	179	37 25
*W5L/5	28,188	194	47 11
*W5BJT	20,553	167	43 8
N5F	15,312	101	33 15

NEW MEXICO			
N5UL	193,800	586	54 41
W6PU/5	176,290	808	55 30

OKLAHOMA			
W5TM	211,850	738	55 40
K5CM	138,300	775	55 20
K5HP	63,623	457	53 8
*K5KA	37,830	137	50 28
*AA5JG	5,814	69	37 1

TEXAS			
W5UN	669,476	1377	58 66
K5RX	618,205	1277	











ENGLAND				*DL8DXF	2,016	27	0	16	PORTUGAL				19,602	124	0	33	AFRICA													
*G3VAO	74,458	232	12	47	*DF6WE	1,932	36	0	14	*CT1DHM	34,656	128	9	39	W4TMR	19,050	171	46	4	MOROCCO										
*M3RCV	21,456	118	0	36	*D7LDCD	1,485	21	0	15	CT1EGW	682	11	0	11	S59D	14,400	91	0	32	CN3A	714,735	688	39	66						
*G6SFP	10,540	65	0	31	*D7D7D	1,430	28	0	12	ROMANIA				46,830	220	0	42	ASIA												
*M0E2P	3,780	35	0	21	*DK4LI	1,020	23	0	12	YO2R	40,480	167	1	45	N8XA	12,212	118	38	5	RZ9WKK	8,075	52	0	17						
*C4PIQ	2,198	34	0	14	*DL2SWN	737	14	0	11	*Y03APJ	29,988	132	0	42	SP2DNI	11,956	88	0	28	TA7KA	87,400	241	0	38						
*M0XDF	2,175	28	0	15	*DF2FM	550	17	0	10	*Y03FRI	23,688	131	0	36	US5IND	11,900	77	0	30		TURKEY									
MZ8A	385	10	0	7	*D04TP	312	9	0	8	*Y02IS	16,920	109	0	30	H6A6IA	8,100	69	0	25		87,400	241	0	38						
*G4WGE	80	4	0	4	*DJ8EW	88	5	0	4	Y05BBO	15,168	94	0	32	US6IKF	7,743	59	0	29											
ESTONIA				826	19	66	SY2V	72,216	281	2	49	*Y03JW	9,386	70	0	26	US7OFF	5,727	51	0	23	EUROPE								
ES5RW	382,670	85	0	30	SV1GRD	32,736	142	0	44	YR8D	7,550	60	0	25	DO1MGN	4,956	60	0	21	EW6BN	228,096	641	2	64						
ES6KW	12,930	85	0	30	*SV2KBE	15,903	105	0	31	*Y04KCC	5,496	47	0	24	KD8EIR	3,672	48	34	2		BELGIUM									
ES11P	7,756	56	0	28	*SV1EQU	8,632	77	1	25	*Y02LXW	1,000	20	0	10	DJ6TK	3,026	44	0	17	OT5A	122,980	462	2	50						
EUROPEAN RUSSIA				79,458	258	4	53	HUNGARY	132,809	440	7	52	*Y2TU	4,446	47	0	19	N6WG	2,254	72	11	3	9A5D	114,513	387	2	55			
RU6LA	55,920	224	0	45	*SV7BOT	7,950	85	0	25	*Y18AA	1,220	4	1	3	RN1AO	1,648	22	0	16		CROATIA									
*UA6AIW	50,355	224	0	45	SV2FLQ	5,773	55	0	23	SLOVAKIA	87,096	287	9	48	DJ2ME	3,961	28	0	13		114,513	387	2	55						
*RNSAHL	44,704	193	0	44	HA7PL	128,797	424	4	55	OM7JG	29,785	171	0	35	K3TVM	396	18	11	0		DENMARK									
RU1AB	44,462	184	0	47	*HA8BE	92,920	397	0	46	*OM4DN	26,894	157	0	34	UA6LPY	185	7	0	5		209,592	558	16	55						
*UA4FRL	37,214	154	1	45	HA3NU	90,736	333	4	49	*OM6AL	7,848	65	0	24	EU1DZ	175	7	0	5		ENGLAND									
*RV3LZ	23,160	112	0	40	*HA1BC	28,305	153	0	37	*OM7YC	8	3	0	2	LA20K	68	4	0	4	G0MTN	1,164	20	0	12						
*RV3LO	20,332	121	0	34	(OP: DL1MAJ)				14,060	74	0	37	W8DS	54	9	3	0			ENGLAND										
*RU6YJ	19,044	106	0	36	*HA1CW	14,060	74	0	37	SLOVENIA	331,344	814	14	64	N3TEE	18	3	0	0	ES5MG	43,513	147	3	50						
*UA6YIU	18,684	104	0	36	HA0HW	12,120	81	0	30	S57DX	275,798	713	12	62		8	2	2			EUROPEAN RUSSIA									
*RD6LP	16,592	99	0	34	HA5AZZ	8,497	62	0	29	S530K	65,664	225	5	49	MULTI-OPERATOR															
RV1CC	15,097	99	0	31	ICELAND	1,300	17	0	13	*S52OT	57,134	208	7	46	NORTH AMERICA															
*RA6XB	14,968	60	0	42	IRELAND	74,823	301	6	43	*S51F	51,456	209	5	43	UNITED STATES															
*RA4UT	14,250	117	0	25	EI9HX	13,736	82	2	32	*S59N	33,892	188	0	37	CONNECTICUT															
RA1AR	13,253	93	0	29	*E13ENB	13,736	82	2	32	*S540	15,090	105	0	30	MASSACHUSETTS															
*UA6YI	11,067	66	0	31	ITALY	87,615	324	7	48	S58MU	12,928	78	4	28	13,845				142	34	5	W1TO	13,845	142	34	5				
*UA1CUR	10,808	77	0	28	IK1BCC	22,648	117	1	37	*S51DX	11,064	97	0	24	NEW JERSEY															
*RK4PB	9,984	69	0	26	*IK5WVW	18,259	126	0	31	S57C	6,600	57	0	24	311,987				1052	58	45									
RK6JH	8,996	68	0	26	IK2SPB	53,946	190	5	49	*S51TA	6,237	62	0	21	NEW YORK															
RK3AEJ	7,766	70	0	22	*I1EIS	35,696	150	1	45	*S56DX	252	8	0	6	8,280				117	30	0	N2MCI	8,280	117	30	0				
*RU4FA	7,700	60	0	25	*IZ8EPX	32,040	139	1	44	*S53DJJ	110	5	0	5	MARYLAND															
*UA3LHL	7,061	66	0	23	*IK8UND	31,320	137	0	45	*S59T	88	5	0	4	83,708				451	50	18	WX3B	83,708	451	50	18				
RA4HBS	6,371	55	0	23	IT9ZTX	23,184	100	0	42	*EA3AKA	32,265	140	4	41	PENNSYLVANIA															
*RU3SD	5,700	38	0	25	IK1BCC	22,648	117	1	37	EA5HT	27,004	116	9	34	496,431				1427	59	58	WE3C	496,431	1427	59	58				
RZ3DA	5,616	44	0	24	*IK5WVW	18,259	126	0	31	*AM3M	18,975	116	0	33	265,905				1021	57	38	W2MCF	307,090	993	58	49				
*UA3MEJ	4,862	44	0	22	IK2SAU	15,366	76	0	39	*EA3CI	14,784	92	0	32	53,572				377	49	10	N2MCI	30,580	222	44	11				
*RU3UW	3,312	37	0	18	IV3BKH	14,319	74	1	36	EA3FF	11,490	80	0	30	16,880				177	36	4	W2CFL	12,144	110	38	6				
*UA3OQ	3,128	39	0	17	IZ5GHD	12,992	81	1	31	*EA3VW	7,192	48	7	18	16,880				177	36	4	W2CFL	12,144	110	38	6				
RK6AQM	792	12	0	11	*IZ1DSH	4,000	29	0	25	EA3ELZ	1,204	18	0	14	3,612				71	21	0	W3E3	496,431	1427	59	58				
*RA1QCK	720	14	0	10	IK2VSH	1,534	25	0	13	EA3ELZ	1,204	18	0	14	16,880				177	36	4	W3E3	496,431	1427	59	58				
UA4NC	174	7	0	6	*IZ1DXS	876	14	0	12	*EA1FCH	1,080	13	0	15	3,612				71	21	0	W3E3	496,431	1427	59	58				
*RZ3VA	168	11	0	4	IR2W2F	458,136	1004	19	65	*EB2CYP	576	11	0	9	3,612				71	21	0	W3E3	496,431	1427	59	58				
FINLAND				24,624	130	0	36	KALININGRAD	458,136	1004	19	65	*EA1DFF	287	9	0	7	3,612				71	21	0	W3E3	496,431	1427	59	58	
OH5NE	20,720	114	0	35	*UA2FFX	16,994	116	0	29	*EA1AST	36	3	0	3	3,612				71	21	0	W3E3	496,431	1427	59	58				
OH6NIO	14,880	67	1	39	UA2FTT	8,370	57	0	27	*SM6U	56,340	242	1	44	3,612				71	21	0	W3E3	496,431	1427	59	58				
*OH4MFA	5,934	53	0	23	YL2GDD	16,994	116	0	29	SMSU	42,140	239	0	35	3,612				71	21	0	W3E3	496,431	1427	59	58				
*OH6GFI	14	2	0	2	*YL1ZJ	9,200	80	0	23	*SMDXDR	4,100	40	0	20	3,612				71	21	0	W3E3	496,431	1427	59	58				
FRANCE				57,330	233	1	48	LATVIA	16,020	81	2	34	*SM6U	56,340	242	1	44	3,612				71	21	0	W3E3	496,431	1427	59	58	
*F4FLK	42,168	197	1	41	*YL2PP	2,160	26	0	16	LITHUANIA	82,839	295	4	49	3,612				71	21	0	W3E3	496,431	1427	59	58				
*F5VLV	40,005	173	1	44	LY2OU	15,030	100	0	30	LY2OU	3,870	42	0	18	3,612				71	21	0	W3E3	496,431	1427	59	58				
F50WT	15,930	104	0	30	*LY3BA	423	10	0	9	LY2OU	224	7	0	7	3,612				71	21	0	W3E3	496,431	1427	59	58				
*F5NCU	8,840	66	0	26	*LY2OO	224	7	0	7	LUXEMBOURG	8,908	49	1	33	3,612				71	21	0	W3E3	496,431	1427	59	58				
*F11RE	280	7	0	7	LX1ER	8,908	49	1	33	MACEDONIA	93,443	361	0	49	3,612				71	21	0	W3E3	496,431	1427	59	58				
GERMANY				224,124	676	17	59	LITHUANIA	82,839	295	4	49	*Z36N	8,050	63	0	25	3,612				71	21	0	W3E3	496,431	14			