

# Results of the 2007 CQ WW DX 160 Meter Contests

BY DAVID L. THOMPSON,\* K4JRB

**T**he 2007 CQ WW 160 is dedicated to silent keys K6SE, N4UH, KTØR, and N6ZZ, all of whom entered the contest for the last time. Rest in peace, OMs.

The CQ WW 160 continues to grow, as a record 1801 logs were received for the CW section. Add to this number the 798 SSB logs, and the contests drew a total of 2599 logs. Who says 160 meters cannot support major contests? Conditions were good for the CW section and poor to fair (again) for SSB, but some of the Europeans were still loud into North America. The gang at XE1RCS laments the poor conditions on SSB and longs for great conditions so they can log all those 10-pointers. Well, maybe 2008 will be the year for great conditions on both modes! The CW master log grew to 7089 individual stations and the DXCC + WAE count rose slightly to 160 entities, using the correct DXCC term. The SSB master log grew to 5349 stations in spite of the conditions and the entity count broke 150 for the first time in years.

## CW

Mark, N5OT keyed the W8JI super station to the USA high score as W4AN. He finished over 200K ahead of K9DX. N2NT, W4MYA, and AA1K made up the top 5 USA. John, VE3EJ, returned as the top Canadian, and EA8EA rang the bell with the high world score and top DX. He nudged ahead of Martti, OH2BH, at CU2A. Leave it to the Finish operators to find those good locations to make the high scores. The surprise of the top 10 DX was GM3POI coming in a strong third. This dispels the idea that high scores cannot be made from as far north as Scotland. SO2R and S53F rounded out the top 5 DX, with new entity 4O3M placing sixth. Herby, KV4FZ, broke the top 10 at number 8 for the high North American.

An astounding 65 single operator stations broke the 1K QSO mark, led by Martti at CU2A with 1909. GM3POI came in second with 1774, and Mark led North America at W4AN with 1689. Mark was just ahead of one of our plaque sponsors, K9DX, with 1552. UA6LV worked 85 entities to lead the single operators. W4AN led the USA with 71, but as usual, the DX competitors took all of the top 10 places, as W4AN was tied for 22nd place.

The W/VE multiplier count was a different story, with Larry, N7DD, leading a group of three with 59. The highest DX station was KV4FZ with 58, and CU2A led outside North America with 57. The low power crowd was led by VE3DO (Canada), W8/T98T (USA), and YT1VP from Europe. Even with low power YT1VP worked 18 W/VE mults.

KP4KE was the leading QRP entrant and he worked 44 DX entities. Most of the rest of the top 10 scores came from Europe, but KØPK came in at number 8 and VA3DF at number 9. A record number of QRP logs were received on CW. Good show, gang!

The Kaliningrad group converged on Morocco and broke the bank with well over 3 million points as CN2A. They set a new QSO record with 2207 and beat number two, PJ2T, by over 1 million points. Jeff helped VY2ZM place third and lead North America. CT3FN and John, ON4UN, the low-band wizard rounded out the top 5 multi ops. You had to drop down to 23rd to find the USA leader N8T, led by Yuri, K3BU, operating the W8LRL super station. They edged out the veteran group at W2GD by 81 QSOs. OM7M put 87 DX entities in the log to lead the multi-op crowd. VY2ZM led North America with 83, and N8T led the USA with 72, edging out the teams at W2GD

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Paul, N4PN, top USA SSB Single Op at the operating console.

and K3NA by 1. The DX leaders in W/VE mults were PJ2T with 58 and CN2A with 55. Note should be made of the 49 mults logged by ZL6QH from New Zealand.

## SSB

Even with relatively worse conditions for SSB than CW, some nice scores were posted. Nick, VE3EY, led the world from his Ontario location, SN2R came in a strong second, and two USA entries placed third and fourth, with Paul, N4PN, nosing out Yuri at K8T. This was a battle not only of operators but of super stations W8JI and W8LRL. It was almost a dead heat. LN9Z dispelled the notion that high scores from the far north cannot be made, as he placed 5th, not far behind at 4O9K. Bob, W4MYA, who really works at the CQ WW 160 contests, came in third in the USA. Bob is due an "iron man" award for his high score in both the CW and SSB top 10. Yuri, K8T, did make the most SSB QSOs with 1334, beating Paul, N4PN, who placed second with 1295. LN9Z led the DX with 1013 Q's. SN3R worked 66 DX entities to lead all comers as single operator. All of the rest of the top 25 were DX (mostly European), and N4PN led the USA with 52. Herby, KV4FZ, had the most outside the USA and Canada in North America. Herby also gets an "iron man" award for placing in the top 10 in both the CW and SSB contests. KV4FZ also worked the most W/VE mults for the DX with 54, and you had to drop all the way to 23 to find CT9L and CU2AF. HG3DX led the hearty low-power crowd, and veteran VA3DX placed third. Up Connecticut way, W1CTN led the USA low power and placed 8th world high. Tony, KP4KE, blew away the rest with 220K to lead the QRP category. S57SU came in second with 66K, VE3SHL third at 39K, and W4TMR and N8IE rounded out the top 5. W4TMR is a long-time contestant recently concentrating on QRP for both modes.

The C6ANM gang operated Field Day style on the beach and nudged out HG8DX for world high multi-operator. N2OO and the South Jersey DX Association returned as N2CW to place first in the



The K5FMC CW Multi-Op team (left to right): Mickey, K5MC; Barry, WC5N; Ray, W5EW; and Don, K5QK.

## 2007 PLAQUE DONORS AND WINNERS

### SINGLE OPERATOR CW

**WORLD BY W4ZV (DJ8WL Memorial):** Winner Ville Hiilesmaa, EA8EA (OH2MM).  
**USA BY K4TEA:** Winner W4AN South East Contest Club (Op. Mark Beckwith, N5OT).  
**CANADA BY ALABAMA CONTEST GROUP:** Winner John Sluymer, VE3EJ.  
**ZONE 3 BY N5IA:** Winner Larry Pace, N7DD.  
**ZONE 4 BY K4WA:** Winner John W. Battin, K9DX.  
**ZONE 5 BY N4PN:** Winner Andy Blank, N2NT.  
**AFRICA BY WS9V:** Winner None eligible.  
**ASIA BY K4SX:** Winner Valentin Benzar, C4M (5B4AGM).  
**EUROPE BY K9DX:** Winner Martti Laine, CU2A (OH2BH).  
**RUSSIA BY RZ3AA:** Winner Alan Biryukov, UA6LV.  
**OCEANIA BY K9DX:** Winner Oahu Contest Club, KH7X (Op. Mike Gibson, KH6ND).  
**SOUTH AMERICA BY W4NU (W4UUH Memorial):** Winner Alan Van Buren, CE1/K7CA.  
**JAPAN BY ALABAMA CONTEST GROUP:** Winner Shigeru Tsukeshiba, JH2FXK.  
**NORTH AMERICA BY CQ MAGAZINE (N4IN Memorial):** Winner Herbert Schoenbohn, KV4FZ.

### SSB

**WORLD BY N4NX:** Winner Nick Lekic, VE3EY.  
**USA BY K4JRB:** Winner Paul Newberry, N4PN.  
**CANADA BY ALABAMA CONTEST GROUP:** Winner Ken Asmus, VA3KA.  
**ZONE 3 BY N4TMW:** Winner Gary Elliott, K7OX.  
**ZONE 4 BY N4XMX:** Winner Don Kerouac, K9NR.  
**ZONE 5 BY K1PX:** Winner Yuri Blanarovich, K8T (K3BU).  
**AFRICA BY WB4ZNH:** Winner Walter Skudlarek, CT9L (DJ6QT).  
**ASIA BY NT4TT/AH2BE:** Winner Spyros Stavrinides, H22H (5B4MF).  
**EUROPE BY WS9V:** Winner Eieslaw Gebal, SN3R (SP6HEQ).  
**OCEANIA BY D4B/4L5A:** Winner None eligible.  
**SOUTH AMERICA BY D4B/4L5A:** Winner None eligible.  
**NORTH AMERICA BY CQ MAGAZINE (K2EEK Memorial):** Winner Herbert Schoenbohn, KV4FZ.

### MULTI-OPERATOR CW

**WORLD BY N4RJ:** Winner UA2 Contest Club, CN2A (Ops. RV2FW, UA2FB, UA2FF).  
**USA BY W8UVZ, W0CD, and K8GG:** Winner Telsa Radio Club, N8T (Ops. K3BU, W8LRL).  
**Zone 3 BY 4X4NJ:** Winner Boring Amateur Radio Club, K7RAT (Ops. K6AW, N0AX, N6TR).

### SSB

**WORLD BY SOUTHEASTERN DX CLUB:** Winner Clipper Contest Club, C6ANM (Ops. N1GN, NE1B, W2AFC).  
**USA BY WB9Z:** Winner South Jersey DX Assn., N2CW (Ops. N2OO plus a host of others).  
**Zone 3 BY 4X4NJ:** Winner Jack's Peak Amateur Radio Association, N7GP (Ops. W7MCO, N5XNF, K7JEM).

USA. Vic, XE1VIC, at XE1RCS longs for the pile-ups of 10-pointers, but still came in 7th ahead of long-time arch rival UU7J, who came in 9th. ND8DX in Ohio came away with the most QSOs with 1058, HG8DX was again second with 1016, and C6ANM only needed 862 QSOs to top the multi-ops. 4O1A worked the most DX entities with 68. HG8DX was again second with 65. N2CW mustered 48 to lead the USA. C6ANM and VE1RCS worked the most W/VE multipliers with 58 and 56, respectively. UA2FW only logged 22 W/VE mults, which is at least 10 below their high several years ago.

## Clubs

For the second year the Bavarian Contest Club ran away with the top club score. The top USA club was the ever-present Potomac Valley Radio Club, with the Frankford Radio Club moving up to third. An astonishing 30 clubs scored more than 1 million points. Making a million points was the goal of even the big clubs just a decade ago. The club competition is just a "for fun" competition, but getting each club to standardize on a name will make sure that a score is not missed in tabulating the totals. Please, club secretaries or activities directors, make sure all the stations in the club use the same name. For example, the Mad River Radio Club could be MRRC or Mad River Radio Club, but not both or some combination. A list of competitors can also be sent to the contest director to help in deciding who is really in the club. The individual competitor must still list the club under club competition. Also, a reminder that a minimum of three logs is required for listing. There were a dozen clubs with just two entries, including some who were listed in the past.

## Certificates and Trophies

The rules for certificates and trophies are changed every so often to meet conditions. Only one plaque per section is awarded per entrant. The runner-up gets a plaque for country or continent. No plaque is awarded for a score of less than 30K. Minimums for low power and QRP certificates are 3K for low power and 1K for QRP. Exceptions are made by CQ 160 Contest Committee decision (Japan Low Power, for instance). The CQ 160 Contest Committee or the Contest Director can decide not to award a certificate if the effort is not shown (usually a very low score). A runner-up in either a state, province, or country can be awarded a second-place certificate if there are eight or more entries and the score is 100K or more. Please have patience in receiving your award, as volunteers handle all the trophies and certificates.

## Logging Notes

It seems that many of you need to upgrade your logging program or the country file. The new DXCC entities, such as 4O3, have been missed along with the DC multiplier. That is why some of you actually wound up with a higher score after log checking. I noticed that many in Europe did not score TA1 (European

Turkey). Correctly, TA1 is in Europe and a separate entity. This is why we ask every entrant to fill in the claimed score. We use that to decide if you fall into the exception list, even if you don't have enough NILs (not in logs) or uniques. A zero or blank claimed score sends you directly to the exception list. For hand logs, we see many who do not score contacts correctly. Please read the rules and score each QSO properly. The contest committee does not want to re-score logs. Send

the contest director an e-mail or drop him a note if you have questions.

### Expanded Results and Helpers

For a list of the guest ops and members of multi-op teams, see the expanded results of the contest on the CQ website: <[www.cq-amateur-radio.com](http://www.cq-amateur-radio.com)>.

Thanks to Eddie, W6/G0AZT; Jim, AD1C; Dave, K8CC; and Bob, W5OV, for their help with the logs. Trey, N5KO, provided the robot again this year and helped solve Cabrillo problems. My wife Jean assisted with Microsoft@issues and assisted in getting the results out. Thanks to everyone for the logs. See you in the contests next year!

73, Dave, K4JRB

### W/VE QRM CW

K1Y/4 was a special call for the Straight Key Century club ... **K1Y/N4ARO**. Nice to see activity on CW as high as 1895 kHz ... AA1K. A nasty head cold reduced my operating time to a few hours mostly on Saturday night. However, I did manage to work T32MO and ZL6QH on Sunday morning. Great ops on the other end ... **AC7A**. Only worked one California station; guess I didn't stay up long enough ... **AD8J**. I had two goals: work 200 Q's and 1 Japan. Ended up with 201 Q's and 2 Japan. I made my goals ... **AD6ZJ**. Decent Europe opening for a change. Put 27 countries in

### 2006 Contest Corrections

W3DQ was actually in DC and not Maryland and was the top scorer single op DC for both CW and SSB.

PJ2T was in Curacao (Netherlands Antilles) and not Aruba.

A typographical error, MP4A should have been listed as NP4A in the Top 10 box.

the log ... **K0RF**. Third year for me. I am not a con-  
tester but enjoy this contest ... **K1AF**. There were  
more stations per kHz in this contest than any others ...  
**K2LNS**. Band conditions were excellent for QRP ...  
**K3TW**. The highlight was working all continents which  
is a rarity for me ... **K6SE (SK)**. K1DFT gave me my  
last state for WAS on 160 ... **K7OX**. Great propagation.  
Best of any weekend this season ... **K8IR**. Impressive  
turnout. Just wish I had more time to spend ... **K5FA**.  
Location was at 7800 feet at entrance to the Rocky  
Mountain National Park ... **W5VTS**. I have been a ham  
for 25 years and this is the first contest I have entered.  
Boy it was fun ... **NE9H**. Still no Alaska for 160  
WAS ... **N2FY**. Operated the first night with the  
SWR jumping all over. Replaced a fried stand-off  
the next morning. What a difference ... **KW2J**. The  
high point was working CN2A with QRP ... **W4TMR**.  
Finally worked ZL6QH ... **W5XX**. Great thrill to  
work both Europe and Africa from W6 ... **W7DR**.  
Does anyone from VE4 operate 160?...**W7GKF**.  
Operated from a mountain cabin

### TOP 10 SCORES 2007

#### SINGLE OPERATOR

##### USA CW

W4AN .....	838,113	N4PN .....	421,410
K9DX .....	632,968	K8T .....	421,308
N2NT .....	558,076	W4MYA .....	296,006
W4MYA .....	555,662	N3HBX .....	241,384
AA1K .....	512,120	K1Z .....	221,076
WE3C .....	510,715	W3BGN .....	220,806
KD4D .....	490,875	N8TR .....	169,290
W3BGN .....	489,582	K9NR .....	164,025
K4PI .....	484,955	K5RX .....	147,408
NQ4I .....	480,840	W3TS .....	140,967

##### USA SSB

#### VE (TOP 5)

##### CW

VE3EJ .....	1,015,069	VE3EY .....	478,842
VE3DZ .....	815,375	VA3KA .....	381,780
YY2/N3DXX .....	751,959	VE3AP .....	302,934
VE3TA .....	727,650	VA5DX .....	207,438
VE2TZT .....	711,160	VA3DX .....	125,244 (LP)

##### SSB

#### QRP (TOP 5)

##### CW

KP4KE .....	224,544	KP4KE .....	219,744
OM4KW .....	197,142	S57SU .....	65,856
S54AAF .....	135,211	VE3SHL .....	38,829
DF3KV .....	91,202	W4TMR .....	26,901
UY5VA .....	68,264	N8IE .....	24,549

##### SSB

#### DX CW

EA8EA .....	1,892,500	SN3R .....	438,396
CU2A .....	1,838,992	LN9Z .....	408,947
GM3POI .....	1,311,142	IV3OWC .....	365,070
SO2R .....	1,003,884	SP7MTF .....	361,920
S53F .....	931,470	IZ4DPV .....	351,588
4O3M .....	894,004	UA2FF .....	326,160
YU1LA .....	850,212	S50A .....	317,616
KV4FZ .....	841,375	EA6SX .....	291,525
EA3KU .....	831,680	KV4FZ .....	282,497
DL1AUZ .....	821,256	HG3DX .....	248,948 (LP)

#### DX SSB

#### LOW POWER (TOP 6)

VE3DO .....	479,560	HG3DX .....	248,948
W8/T98T .....	353,248	DJ9A .....	185,500
YT1VP .....	351,645	VA3DX .....	125,244
TA2RC .....	333,816	Z35W .....	100,372
VE3NE .....	331,350	YO5OEF .....	92,923

#### W/VE QRP (TOP 3)

K0PK .....	61,260	W1CTN .....	59,177
VA3DF .....	55,350	W2RR .....	44,022
AA1CA .....	47,971	K0RH .....	41,211

#### USA TOP 3 LP

#### MULTI-OPERATOR

##### CW(WW)

CN2A .....	3,082,880	C6ANM .....	466,700
PJ2T .....	2,047,480	HG8DX .....	461,748
YY2ZM .....	1,977,697	UA2FW .....	426,904
CT3FN .....	1,317,232	4O1A .....	388,500
ON4UN .....	1,300,388	S56P .....	352,500
MD4K .....	1,172,992	N2CW .....	335,808
OM8A .....	1,119,669	XE1RCS .....	334,614
OM7M .....	1,105,024	S54O .....	329,544
4O1A .....	1,068,810	UU7J .....	314,142
T93J .....	1,009,698	HB9CXZ .....	304,921

##### SSB(WW)

### The 2008 160 Meter Contests

The dates for the 2008 CQ WW 160 Meter Contests are set for CW January 26–27 and SSB February 23–24. The contests run from 0000Z the first date to 2359Z the second date. Logs can be submitted as hand logs to CQ, or in Cabrillo format via e-mail. You may also submit electronic logs on diskette (3.5-inch, please), also sent to CQ. We must hold everyone to our required log deadlines of February 28, 2008 for CW and March 31, 2008 for SSB. Please clearly mark envelopes for hand logs either SSB or CW. **Computer generated hand logs MUST include a diskette to be considered.** Mailed logs must bear a postmark no later than the deadline for consideration.

Send all hand logs to CQ 160 Meter Contest, 25 Newbridge Road, Hicksville, NY 11801. For 2008 CW e-logs go to <[160cw@kkn.net](mailto:160cw@kkn.net)> and SSB e-logs go to <[160ssb@kkn.net](mailto:160ssb@kkn.net)>. Remember to put your call in the Subject line of the e-mail. This call is put into the master to make sure it matches the call of the entry. Name the log call.log (K4JRB.LOG for example).

Complete rules for the contest can be found in the November 2007 issue of CQ and at the CQ website: <[www.cq-amateur-radio.com](http://www.cq-amateur-radio.com)>.



In the CW contest Mike, W7DRA/0, operated his low-power boatanchor station from Nebraska.

## 2007 CLUB SCORES

(Minimum of 3 three entries required for listing)

BAVARIAN CONTEST CLUB .....	12,483,266	NORTH COAST CONTESTERS.....	724,877
POTOMAC VALLEY RADIO CLUB.....	9,537,932	CENTRAL ARIZONA DX ASSOCIATION.....	692,979
FRANKFORD RADIO CLUB.....	8,814,953	WESTERN NEW YORK DX ASSOCIATION.....	617,056
CONTEST CLUB FINLAND.....	8,188,398	NORTH TEXAS CONTEST CLUB.....	609,604
SLOVENIAN CONTEST CLUB.....	8,105,759	KANSAS CITY DX CLUB.....	551,566
YANKEE CLIPPER CONTEST CLUB.....	8,089,660	SPOKANE DX ASSOCIATION.....	541,439
RHINE-RHUR DX ASSOCIATION.....	8,077,271	CENTRAL TEXAS DX AND CONTEST CLUB.....	515,976
CONTEST CLUB ONTARIO.....	7,896,432	SOUTHEASTERN DX CLUB.....	510,635
UA2 CONTEST CLUB.....	5,347,415	GRAND MESA CONTESTERS (CO).....	437,421
SOCIETY OF MIDWEST CONTESTERS.....	5,023,878	SOUTH JERSEY DX ASSO.....	431,674
MAD RIVER RADIO CLUB.....	4,502,218	BRITISH COLUMBIA DX CLUB.....	430,629
SPDXC (POLAND).....	3,640,555	CT-RI CONTEST GROUP.....	426,352
SOUTH EAST CONTEST CLUB.....	2,857,376	EAST COAST CANADA CONTEST CLUB.....	401,058
TENNESSEE CONTEST GROUP.....	2,649,703	SOUTH URAL CONTEST CLUB.....	366,310
BELOKRANJEC CONTEST CLUB (SLOVENIA).....	2,478,536	WESTERN WASHINGTON DX CLUB.....	333,363
UKRAINE CONTEST CLUB.....	2,453,747	CAROLINA DX ASSOCIATION.....	311,369
FLORIDA CONTEST GROUP.....	2,359,191	LOW COUNTRY CONTEST CLUB (SC).....	297,623
CROATIAN CONTEST CLUB.....	2,306,921	WEST PARK RADIO OPERATORS.....	257,583
YU CONTEST CLUB.....	2,168,688	VERON (NETHERLANDS).....	256,917
RUSSIAN CONTEST CLUB.....	1,982,013	MAGNOLIA DX ASSOCIATION.....	246,664
TARTU CONTEST TEAM.....	1,548,126	KKKK (UKRAINE).....	240,184
LITHUANIAN CONTEST GROUP.....	1,474,893	BAY AREA WIRELESS ASSOCIATION.....	236,813
MINNESOTA WIRELESS ASSOCIATION.....	1,402,846	SOUTHERN CALIF CONTEST CLUB.....	226,126
URAL CONTEST GROUP.....	1,346,690	WORLD WIDE YOUNG CONTESTERS.....	205,271
HA DX CLUB.....	1,327,169	SP CONTEST CLUB.....	174,463
CHILTERN DX CLUB (UK).....	1,251,186	MOSCOW RADIO CLUB.....	152,364
DARC (GERMANY).....	1,244,291	METRO DX CLUB.....	122,389
LATVIAN CONTEST CLUB.....	1,083,246	ORDER OF BOILED OWLS OF NY.....	118,115
KTU RADIO CLUB (LITHUANIA).....	1,077,541	MEDINA 2 METER GROUP.....	115,107
HUDSON VALLEY CONTESTERS AND DXERS.....	963,340	NORTHERN ARIZONA DX ASSO.....	99,707
CONTEST GROUP DU QUEBEC.....	894,545	UTAH DX ASSOCIATION.....	92,631
ALABAMA CONTEST GROUP.....	868,765	KENTUCKY CONTEST GROUP.....	89,333
MOSCOW CONTEST CLUB.....	850,588	WILLIAMETTE VALLEY DX CLUB.....	62,959
NORTHERN CALIF CONTEST CLUB.....	834,247	MOTHER LODE DX AND CONTEST CLUB.....	54,082
TOP OF EUROPE CONTESTERS.....	808,910	VLADMIR RADIO CLUB.....	53,848
BLACK SEA CONTEST CLUB.....	745,377	BERGEN AMATEUR RADIO CLUB.....	47,656
FOX CONTEST CLUB (SERBIA).....	731,168	ROCHESTER DX ASSOCIATION.....	21,466

with no commercial power available ... **NA7G**. Why send RST when everyone sends 599 ... **K0LMD**. Made WAS on QRP ... **K0PK**. Paper logging is the pits ... **VE6SF**. 54th year of contesting ... **W6PU**. Wow, the log looked like 20 meters ... **K8XXX**. Thanks to John Evans, N3HBX, for allowing me to operate his great station ... **KD4D**. Missed ND and RI ... **K07X**. Will be shooting for 600K next year ... **KU1CW**. Minus 25 degrees C outside, snow on the ground, and deer prowling around gave us a real sense of isolation ... **VE2OJ**. Friday night played havoc with the antenna but a calm Saturday night allowed the 140-foot balloon vertical to work great ... **VE3MGY**. Who said CW was dead? ... **VE7CA**. It was neat working EY8MM, UN4LW, and 4L2M ... **VY2ZM**. Competition gets tougher the older you get but it's still fun ... **W3BGN**. Next year will have a decent antenna ... **W3WH**. Not too bad for a slow CW operator ... **WK4P**. Biggest thrill was to be back on the air, as home and station were destroyed by Hurricane Katrina ... **WD5BJT**.

### DX QRM CW

The 160 meter contest is fun for me but the radar from China made it very difficult to QSO USA or Europe ... **JJ0MEF**. I heard many stations from the USA but no QSOs as no amplifier here ... **NP3CW**. Very modest setup in the back yard but enjoyed working the contest ... **OZ2A**. When you are located at 12 degrees north of the equator on 160 meters, you learn to exploit the night by embracing the noise! The DX Engineering 4-square RX array worked well, even installed Field Day style over Curacao's rocky, dusty ground. It's a "keeper"! Thanks to all those who worked us! ... **PJ2T**. Pleased to run my 7th CQ 160 CW Contest in row and get my personal best score, with a 'new one,' CN2A. Glad to work 18 YO stations! Good condx to Middle East and Central Asia. Best wishes ... **YO2IS**. With an output of less than 5 watts and a long call means very few of the big guns hear you. They are tool busy CQing ... **YI9CC/5**. No one in radius of 1000 km of me in Siberia ... **UA0SR**. Location is ideal for working USA, but it becomes challenging if one can not spread out callers of pileups because with RIT ±70 Hz you hear call signs of neighboring QSOs ... **V31YN**. Took the opportunity to work a couple of new entities for DXCC on 160 ... **SM7BVO**. Lot's of fun with the contest and our interactive website (audio/video/log) 160.pc5m.com. See you next year ... **PC5M**. Unfortunately no PI4COM multi operation this year as work did not allow any team member the time after coming back from VU7. So, only 5 hours of FUN....**PA1AW**. I got two new ones on Top band while testing a few hours with my new K1EL WinKeyer and N1MM Logger. They both work great ...

**OH3BU**. Great contest. Very happy with end result with only a G5RV and 2x 41m raised radials. Highlight: Being called by J46J for a new mult ... **M3CVN**. Sunday was good to both USA and Asia. Worked three new ones in Asia ... **LZ2JE**. My computer crashed after 17 QSOs. So sorry for those who are not in my log ... **LY2BOS**. Just a part-time activity to activate the new club call-sign for the Helvetia Contest. It was very nice to work Top band in good condx. Phil, HB9FMU, and Stephan, HB9DDO, operating from HB9CA's QTH ... **HB9CT**. Good propagation towards Asia, less favorable into WVE. Had to cope with an absolutely crowded band from 1810 to 1850. Most of the time used the 12 dB attenuator, IPO, and VRF with the Mk V. I can understand my fellow amateurs operate above 1850; QRM is less but contesting for DL is not allowed there ... **DL9YX**. Lost time in amplifier repairs. First one busted in the first 20 minutes and the second on Sunday afternoon ... **CT1FJK**.

### WVE QRM SSB

Being told by NN2L that I had a booming signal while using a dipole 15 feet off the ground ... **K1OYB**. Band was much quieter on Saturday night ... **W0HXL**. Very pleased with the results of my first 160 meter contest ... **VA3TSG**. 160 meters is the greatest band. People help you make the QSO ... **WA9TZE**. High noise level kept the score down this year ... **W4TMR**. Run off the air by a vicious wind and rain storm and only able to operate a few hours ... **W5UMS (W8FR op.)**. I need to install a good DX antenna as my horizontal dipole at 20 feet does not get it ... **AF1T**. Ice on the antenna caused high SWR then brought the antenna down ... **N8XA**. Only operated 160 for about six weeks ... **K9ZE**. Working the contest with an antenna of my own design ... **K1DFT**. Tough to get through the European screen for DX ... **K1HAP**. First "CQ" contest. Had fun but next 160 contest will have a better receive antenna. Looking forward to next year ... **AE1P**. The most fun 2 hrs I've had on 160 SSB...**K1TO**. Amazed to surpass 500 Q's first night with the static ... **K5RX**. Went well until the balloon escaped ... **K6NN**. Heavy snow static and QRN the first night. Second night conditions quieted down somewhat. K1JB called in the second night at 1144Z giving me Maine for my last state for SSB WAS ... **K7OX**. Awesome results with 75m antenna because storm destroyed the 160 antenna ... **K9IDQ**. Apologies to all I could not pull through the strong QRN, and thanks to all who patiently repeated exchanges until I got it right ... **K9UW**. First time I have been able to run on 160 ... **KE1H**. This was our 4th SJDCA club entry in this contest. It has become our primary "annual" club activity. We share the wonderful 160 antenna farm with the

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W2GD 160 contest team here at the former site of coastal marine station WSC (now WYRS FM broadcast site). Friday night was difficult. We had a couple of equipment failures as well as very high atmospheric noise! But after some reconfiguring on Saturday afternoon, we were well prepared for the Saturday night activity which brought excellent band conditions. Europe was coming in well throughout the evening. Special thanks to the W2GD contest team and to WYRS (our host). It turned out to be a very fun weekend for our entire team of 16 operators ... **N2CW**. SSB on 160 can be either fun or not fun depending mostly on the QRN level and the activity level. This year the QRN was not too bad and the activity level in NA was pretty good, but propagation and/or activity outside NA was poor (hard to tell how much of each). Fifth time I've done CQ 160 SSB since 2001: 6x DX countries in '01, 8 to 14 DX '03 thru '05; this year 4 DX, all NA. I seem fated to work 39 states: same as '03 thru '05, but only 3 VE provinces this year vs. 4 to 6 in earlier years. As in past years, rate always best in the first 1 to 3 hrs. of the contest and in the last hour ... **N3UM**. Once again operated from the W8JI super station. Worked 101 Europeans the first night ... **N4PN**. Only managed a few hours, but noticed a lot of deaf ears. Too many amplifiers and not enough listening ... **VA3FU**. I returned from a business trip to Italy late Friday, and was just too exhausted to get on the air, so I only operated for 12 hours of the contest. The new Beverages worked great! I can now hear more than I can work, so a better transmitting antenna is necessary ... **VO1NO**. Gee, I did not know there were that many stations in New Hampshire ... **WA3AFS**. Visitors included VE3BAU, Adam (a new ham), and VA3YP, taking a break from his own station ... **VE3DC (VE3BK op)**.

## DX QRM SSB

Conditions were very poor toward EU and NA (DL and UA wk). Unfortunately there is a source of QRM from the north, in between NA path and my station so the flag RX antenna was not able to do much more for me. See you next year again! ... **YV5MBX**. XE1JG did a wonderful job on our Beverage system, txn OM ... **XE1RCS**. One of our favorite contests. It was great to work again our friends from XE1RCS ... UU7J. Nice to operate a couple of hours but the narrow allowance in PA makes it impossible to work any stations above 1870. What happened to the band plan and DX window ... **PA0MIR**. Great contest, very well supported, almost all of 160 used ... **MW0XMG**. My annual foray on 160m. Hard work with 10w but managed three new DXCC ... **M3RCV**. USA stations busy working each other the first night. Wish we could have made more folks happy ... **HH7/N3BNA**. Limited operation due to pain from injured ankle making it impossible to sit at the rig!! Nearly ran out of pain killers! Path to NA was very hard work with N4PN the best signal out of the USA ... **G3VAO**. Poor conditions to NA and big splatter. Almost impossible contest nowadays in SSB with so many hams in Top band, and some of them specially in Italy with so much power, splattering more than 10 kHz 59+, even with big filters. Anyway I enjoy and I do the best I can. Thanks to all ... **EA6SX**. Several stations had their receivers switched off ... **DF6WE**. Another Field Day style operation at the beach in Eleuthera using generator. Thanks for all the calls! Sorry if we didn't hear you. We still had generator noise on one of our beverages. Of course, QRN and QRM too, but so did everyone else! Switching between Beverages helped lower QRM from some directions, but also caused missed calls. Highlights were three meals a day cooked on the beach, swimming, and sleeping in hammocks during daytime hours ... **C6ANM**.

# Results of the 2007 CQ WW DX 160 Meter Contests (from page 29)

Number groups after calls denote score, total QSOs, W/VE multiplier, countries worked. Total multiplier is the addition of the W/VE 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.

## 2007 CW RESULTS SINGLE OPERATOR NORTH AMERICA

UNITED STATES CONNECTICUT			
K1ZZ	16,556	912	58 58
N2TTA	323,033	925	56 51
K1KI	214,320	510	53 41
N1ZZ	198,352	693	57 41
K1IM	163,134	811	56 25
N4XR	134,415	534	54 33
W1OK	117,234	534	49 29
W1JQ*	38,164	259	46 12
K1BV*	32,214	337	41 1
K0XP*	30,478	263	43 6
K1EM	29,680	210	46 10
W2JU*	19,668	182	40 4
K1BTD*	5,970	91	30 0

MASSACHUSETTS			
K1LZ	389,277	893	52 59
K5ZD	153,640	413	52 40
K1EP*	124,024	680	54 20
W1MK*	116,112	465	49 33
N1RL*	43,725	339	45 8
W1CSM	37,926	154	37 26
W1EBI	37,515	245	50 11
N1DM*	26,600	221	45 5
W1FM*	22,815	208	41 4
AA10	6,975	98	30 1

MAINE			
K1JB	168,032	676	56 33
AC10	44,574	213	48 21
N1CGP*	27,307	242	43 4
W1CEK/Q	1,870	38	22 0

NEW HAMPSHIRE			
N1HX	96,096	592	51 15
K1RO*	90,256	422	52 25
N1KWF	85,104	459	56 16
AA1CA/Q	47,971	424	47 2
K1OO*	30,096	298	42 2
AA1SB*	15,522	167	36 3
KN1H*	10,132	125	33 1
K1DAN*	7,788	100	32 1
WA1ZYX*	6,075	99	25 0
N1JH*	2,898	60	21 0

RHODE ISLAND			
K1DFT	173,631	628	54 39
KS1J	77,586	462	50 17
N1HRA	67,963	294	49 24
N1NK*	15,351	147	40 3

VERMONT			
K1HTJ*	4,758	81	26 0

NEW JERSEY			
N2NT	558,076	1283	58 58
N2MM	178,200	711	53 37
AB2E	111,240	429	55 35
N2ED	107,310	590	54 19
K1JT*	80,210	514	50 15
K2T1T	77,372	572	51 7
W2LE	49,205	271	47 18
WA2VYA*	42,000	290	49 11
K2PS	39,572	332	50 2
KD2MX*	31,409	271	44 5
K2YLH*	30,780	229	46 8
W2FB*	11,352	100	39 4
K2OWE	9,135	106	32 3
N2NF*	9,075	124	33 0
K2RET*	8,664	96	36 2
W2JEK/Q	5,256	90	24 9
KR2/Q	4,100	68	23 2
AI2I*	3,952	67	26 0

NEW YORK			
N2BA	420,228	1253	58 50
K2NV	237,956	860	57 44
K2YR	230,688	800	57 39
N2CU	204,100	677	55 45
K2FU	202,080	799	56 40
W2XL	147,967	714	54 25
K2ONP	106,029	516	52 25
WB2ABD	101,104	324	52 37
WB2JOK	89,232	442	52 22
N2MF	78,776	256	52 34
KW2J	75,335	472	52 13
W2RR	56,372	328	52 16
N2ZN*	37,842	303	48 5
K2TA/Q	37,740	320	48 3
K2XA	29,521	192	37 16
N2EK	28,464	250	43 5
W2TB	26,650	216	43 7
WA2MCR*	25,143	200	46 5
NA2M*	24,912	217	43 5
K2UF*	24,030	212	37 8
W2YJ	20,531	160	41 8
N2YB	20,100	148	43 7
WA3AFS	16,796	52	23 29
K2CS*	14,842	156	40 1
KA2L*	11,055	138	31 2
W2GDJ	7,120	69	36 4
N2SOW*	5,616	95	23 1
N2OPW*	5,292	86	27 0
N2FF*	4,807	84	21 2
KD2NE	3,078	48	27 0
WB2TPS*	1,944	51	18 0

DISTRICT OF COLUMBIA			
W3DO	98,217	662	55 8

DELAWARE			
AA1K	512,120	1212	58 66
N8NA*	42,212	268	51 10

MARYLAND			
KD4D	490,875	1269	58 61
K3ZO	340,104	949	53 58
N3JM	152,405	676	54 31

W3ZZ	125,668	500	55 34
K3WI	116,856	672	55 17
K3STX	110,124	549	54 22
N53T*	79,520	458	56 14
N3ND	74,074	366	53 21
WA6AN	42,813	176	46 25
W3DAD*	37,842	321	47 4
K3TW/Q	33,464	307	44 3
K3NCO*	32,385	269	47 4
N3OX*	32,320	168	49 15
N3II*	26,624	202	46 6
K3OO*	17,955	222	35 0
W3NR	16,215	110	35 12
N3XL*	10,982	137	32 2
WA3QF*	9,826	121	32 2
K3KU*	9,641	136	31 0
W3CB*	3,498	69	22 0
K3ZM	938	29	14 0

PENNSYLVANIA			
W3EC	510,715	1263	58 57
W3BGN	489,582	1194	57 61
W3TS	309,969	1136	58 41
W3GH	195,902	680	58 40
W3TDF	181,830	778	57 30
N3ST	108,856	436	53 35
W3SD	82,800	492	52 17
K4JLD	76,925	300	54 31

K4WI*	28,106	273	42 5
W4NTI	22,080	208	42 4
WA1FCN*	14,100	112	44 6
FLORIDA			
WJ9B	389,021	1164	57 52
N4TB	283,800	845	57 53
K1TO	201,571	478	53 50
N6AR	196,144	559	54 50
W4AA*	174,216	537	54 48
W4SVO*	146,850	566	51 38
N4BP	91,256	552	49 19
AD4Z*	69,579	279	52 29
AA7JV	66,759	265	44 33
W7QF	55,152	276	51 21
KK4SI	52,080	141	50 34
KR4OW*	50,358	300	49 17
K4GKD*	46,280	282	50 15
N4CJ*	43,066	296	50 11
W4FDA	18,762	72	28 25
KN4Y*	16,920	197	39 1
KDSM	14,147	117	38 9
N4EK*	10,620	129	32 4
N4CU	7,755	110	31 2
N4WO*	6,180	93	28 2

GEORGIA			
W4AN	838,113	1689	58 71

W4VD*	18,392	223	37 1
AE4EC*	13,949	165	35 2
WK4P*	9,864	114	34 2
NAUH	9,588	125	33 1
W4KAZ*	8,388	99	35 1
N4NTO*	6,496	100	29 0
N4HXI*	1,309	37	17 0

SOUTH CAROLINA			
AF4OX	100,092	504	52 24
K4CNW	47,849	335	49 10
N2FY*	40,640	244	50 14
W7DO	36,480	238	47 13
W4MEL	34,447	316	45 4
K4ADI*	16,974	164	44 2

TENNESSEE			
K1GU	268,496	1062	57 40
N2WN*	200,473	822	55 36
K0EJ	136,290	753	54 23
K4LTA	121,704	825	56 10
N4IR	120,990	662	49 25 9
WR30	105,138	698	55 11
K4RO	89,571	507	55 18
AD4EB	74,555	489	54 11
W4NZ	69,479	495	51 10
N4ZZ	61,344	505	50 4
W4DAN*	61,096	497	51 5

N4DJ	25,928	185	46 10
K4RDU	22,748	211	44 3
W4HJ	20,335	172	43 6
W7HJ	18,288	154	40 8
K7CS	17,145	157	41 4
K4FTO*	15,639	178	36 3
WK4Y	15,300	207	37 0
K4RT	14,473	149	37 4
N4BCC*	14,364	180	36 0
N3W*	12,492	157	36 0
W4VIC*	11,186	140	32 2
K3MZ*	10,605	132	35 0
N4DWK	7,804	38	21 17
K4UK/Q	5,264	72	1
K7LU	5,130	89	27 0
K13O*	4,646	89	23 0
W4CJ	795	25	15 0

ARKANSAS			
K5GO	424,362	1340	58 49
W5ON	141,328	824	56 17
AA5GH	31,644	258	49 5
W5FO*	16,008	157	43 3
N5SAN*	14,360	149	43 1
W5MK*	8,853	106	38 1
K5ACO*	4,992	69	32 0

MISSISSIPPI			
N4OGW	76,221	298	50 31
K5FA	62,790	461	53 12
N15F	41,040	314	51 6
W5D5BT*	3,144	61	24 0
W5MPC*	1,628	30	21 1
W8FR	2	1	1 0

NEW MEXICO			
W6PU	165,760	972	56 18
N5UL	106,596	493	57 27
N6ZZ*	17,101	135	45 4
W5GZ/Q	11,427	138	38 1
N4CVY*	550	25	11 0

OKLAHOMA			
K5KA	55,152	286	51 21
W5TD	3,534	51	30 1

TEXAS			
K5RX	397,100	1186	58 52
N5TW	214,912	899	57 35
K5BG	162,540	739	56 28
N5OE*	88,507	582	55 12
N5PO	84,282	548	53 13
AA5AM*	54,372	320	55 14
K5TD	50,232	272	51 18
W5SEAE	42,750	327	51 6
W5CQJ	35,554	247	48 10
K0GEO*	35,192	300	49 4
W5RYA*	33,956	299	48 4
K5NZ	32,994	275	50 4
K5GM*	12,513	124	38 5
K10G/Q	7,178	83	32 5
W5OLF*	3,565	56	31 0
AD5QB*	126	9	7 0

CALIFORNIA			
AC6DD	107,383	466	52 21
N16K*	104,652	630	56 12
W6JTI*	87,234	514	54 13
W7DR	79,626	453	52 17
W6EU	63,104	390	52 12
N6FF	62,696	333	51 17
K6NR	60,769	340	50 17
W2WVB	54,978	323	52 14
K6SE	42,112	250	50 14
N6AA	39,660	260	50 10
K6XX	35,902	236	49 9
K6NA	33,660	231	44 11
K6LRN	29,040	199	47 8
K6NV	25,350	279	36 3
K2RD	25,114	123	39 19
K6RZ	24,432	193	40 8
K6TA	21,984	154	37 11
K6YK	20,976	179	42 6
N6NF*	20,956	164	46 6
N6WG/Q	16,345	201	32 3
K6DGW	15,059	187	37 0
W6ZL*	14,469	170	37 2
K6EM	13,708	130	43 3
K6EGR*	12,276	179	29 2
N6CK	11,136	124	37 4
WA6BOB	11,931	131	40 1
N6GD*	10,478	133	26 5
AA6EE*	10,374	120	36 2
W6HG</			



DL3YM*	58,150	251	0	50	UA2CZ*	27,405	116	1	44	KALININGRAD					RO3RZ*	29,190	159	0	35	SLOVAKIA	611,620	1027	29	77	URSFBM*	15,120	108	0	28
DJ1YFX*	57,763	259	0	47						Y06MT*	21,644	155	0	28	OM0WR	470,155	886	27	68	UT5JAB*	14,761	102	0	29					
DF8AA	55,335	223	2	49	Y10A	771,000	1370	25	75	Y06MT*	14,652	77	0	37	OM4EX	224,847	713	3	60	UR5NG/UO	8,850	74	0	25					
DJ5JR*	54,652	228	1	51	LATVIA	219,120	698	1	59	Y03III*	9,909	70	0	27	OM7DX*	203,580	671	2	58	US3LX*	6,032	43	0	26					
DL3ZM*	53,360	257	1	45	Y10A	771,000	1370	25	75	Y04AAC/Q	7,464	63	0	24	OM7TT*	197,142	583	5	61	UT2JG	5,040	28	3	21					
DL7BA	53,346	217	1	50	YL3FT*	118,776	401	1	55						OM4K/WQ	180,383	466	12	61	UR5LQ/UO	1,008	17	0	12					
DL5MEV	52,371	118	12	57	YL7X	70,520	271	1	49	RUSSIA					OM3FZ*	150,445	567	0	53	UT4UW/TQ	2	1	0	1					
DL5RY*	52,224	223	1	50	YL2PP*	70,312	289	1	46	UA6UL	719,400	1120	25	85	OM3BA*	68,992	284	1	43	UT5UP/QO	2	1	0	1					
DM0K*	51,136	322	0	47	YL2GQT	22,554	100	0	42	UA3DPX	363,671	910	5	72	OM4DN*	115,719	451	1	59										
DC8SG	49,441	217	0	49	YL7A	22,554	100	0	42	UA3BS	350,796	840	10	72	OM7AMP*	114,140	429	1	51	WALE									
DL1NEO*	48,943	233	1	45	YL2C/Q	19,006	109	0	34	RD3A	328,320	897	3	69	OM3FZ*	82,998	298	0	54	GW3SOX	93,206	309	4	54					
DJ2ZS*	48,150	232	1	45	YL2K/Q	13,906	71	0	34	UA1ANA	298,716	808	10	63	OM3A*	57,061	263	0	43										
DJ9RR	47,652	230	1	43	YL2IP*	9,060	57	0	30	RV1CC	246,772	721	3	65	OM7YC*	55,040	282	0	40										
DD1JN	47,565	233	0	45						RN3GM*	220,570	636	8	62	OM1AF*	7,650	62	0	25										
DF3IS*	46,368	205	1	47	LITHUANIA					RN3BD	216,477	643	3	64	OM3ROM	19,000	110	0	10										
DJ5IW*	46,170	219	0	45	LY2U	743,392	1277	25	79	RN3JU	215,856	563	1	71	OM4APD/Q	860	19	0	10										
DL5MO*	46,008	179	1	53	LY2P*	520,869	1104	16	71	RJ4PU	213,246	648	1	65															
DL3TO*	44,058	230	0	42	LY2O	247,382	629	5	69	RZ6FA	196,434	622	1	62															
DL5XL	43,134	224	0	42	LY3M	199,353	472	14	63	RV6NHZ	188,156	551	4	64															
DK8AX*	42,585	170	1	50	LY3BA*	113,679	431	1	50	UA6LGN*	180,048	571	2	60	S53F	931,470	1301	40	82										
DA3X	41,808	243	0	39	LY2NK*	83,722	400	0	41	RV6NHZ	188,156	551	4	64	S53O	653,400	1057	32	76										
DL3BRA*	41,534	246	0	38	LY2OO*	77,174	326	1	46	UA4FEER	173,047	592	0	59	S50A	560,928	1087	28	68										
DJ1YF*	39,852	215	0	41	LY2MM*	64,413	244	1	50	RV6NHZ	188,156	551	4	64	S59A	549,016	935	29	75										
DL8DWW*	39,390	227	0	39	LY2IC*	63,941	297	0	43	RV6NHZ	188,156	551	4	64	S59K	535,440	1005	28	69										
DJ3JA*	38,023	182	0	45	LY4BE*	55,880	276	0	40	RV6NHZ	188,156	551	4	64	S59L	499,948	946	29	67										
DL1YFF	36,800	151	1	49	LY1C*	23,520	143	0	32	RV6NHZ	188,156	551	4	64	S57M	440,325	869	25	70										
DL1NWX*	35,733	180	0	43	LY2FN*	23,496	145	0	33	RV6NHZ	188,156	551	4	64	S57O	310,200	800	11	64										
DJ7LH*	33,885	162	0	45	LY2TS/Q	18,270	125	0	30	RV6NHZ	188,156	551	4	64	S57P	307,020	671	21	63										
DL3YA*	33,755	165	0	43	LY3W	14,121	104	0	27	RV6NHZ	188,156	551	4	64	S57Q	281,853	763	9	64										
DK1KC*	32,208	148	0	44	LY2BOS*	4,199	45	0	19	RV6NHZ	188,156	551	4	64	S57R	274,413	786	4	65										
DL5KUT	31,775	162	0	41						RV6NHZ	188,156	551	4	64	S52OP	266,463	732	10	61										
DF6WE*	31,000	173	0	40	LUXEMBOURG					RV6NHZ	188,156	551	4	64	S54X	231,075	559	15	64										
DL3XM	30,102	78	5	53	LX1NO*	185,690	577	6	56	RV6NHZ	188,156	551	4	64	S57J	225,550	690	4	61										
DL1DXA/Q	28,080	146	0	40	LX1ER*	3,895	41	0	19	RV6NHZ	188,156	551	4	64	S58O	221,008	550	14	62										
DL1BZA*	27,760	153	0	40						RV6NHZ	188,156	551	4	64	S57X	203,747	605	7	60										
DJ1AA*	27,470	140	1	40	MALTA					RV6NHZ	188,156	551	4	64	S58P*	190,608	570	9	57										
DL6RBH*	23,724	146	0	36	9H6A	395,460	961	15	63	RV6NHZ	188,156	551	4	64	S50X*	182,070	576	4	59										
DK3YD	23,661	158	0	37						RV6NHZ	188,156	551	4	64	S51F*	181,235	535	10	57										
DL2LW*	23,366	133	1	37	MOLDOVA					RV6NHZ	188,156	551	4	64	S52W*	145,278	464	3	60										
DK8EY*	22,880	122	0	40	ER0FO	400,338	1046	4	65	RV6NHZ	188,156	551	4	64	S54O*	137,541	488	1	56										
DF2IA*	21,455	135	0	35	ER10O	127,836	457	0	53	RV6NHZ	188,156	551	4	64	S54A/Q	136,211	394	8	59										
DL5NB/J	21,432	119	1	37						RV6NHZ	188,156	551	4	64	S51R*	95,608	543	2	56										
DL6EJ	21,386	120	0	37	MONTENEGRO					RV6NHZ	188,156	551	4	64	S58M*	94,325	352	1	54										
DJ2ASO	21,063	72	1	50	403M	894,004	1505	32	74	RV6NHZ	188,156	551	4	64	S52QM	88,088	307	4	52										
DJ3GE/O	19,734	139	0	33						RV6NHZ	188,156	551	4	64	S57NAW*	69,400	274	1	49										
DL4YA	17,990	106	0	35	NETHERLANDS					RV6NHZ	188,156	551	4	64	S58M*	49,860	235	1	44										
DJ8ES	17,820	78	3	42	PA4A	259,974	750	5	61	RV6NHZ	188,156	551	4	64	S57L*	44,997	161	2	51										
DM3X1*	17,388	56	0	54	PA0O*	209,508	589	13	55	RV6NHZ	188,156	551	4	64	S59N	24,505	184	0	29										
DL7JRD*	17,116	73	2	42	PA0LOU	138,000	444	6	54	RV6NHZ	188,156	551	4	64	S52B	17,700	122	0	30										
DG7RO*	16,290	125	0	30	PA1AJ	82,628	312	1	51	RV6NHZ	188,156	551	4	64	S53AU*	14,818	102	0	31										
DM5BJB*	16,213	107	1	32	PA0JNH	77,121	258	0	52	RV6NHZ	188,156	551	4	64	S51RE/O	9,238	541	0	31										
DL1DVN*	15,708	98	0	34	PA5X	65,758	199	2	59	RV6NHZ	188,156	551	4	64	S51DX*	4,905	72	0	15										
DL2ZA*	15,210	110	0	30	PA0MIR*	64,736	222	3	53	RV6NHZ	188,156	551	4	64	S53M*	2,352	36	0	16										
DL1IA*	15,129	75	1	40	PA4I*	49,128	206	1	45	RV6NHZ	188,156	551	4	64	S57S*	1,518	39	0	11										
DL9NDV*	14,751	96	0	33	PA5WT	45,551	222	1	40	RV6NHZ	188,156	551	4	64															
DL8ZAJ*	14,220	103	0	30	PA0OX	38,570	224	0	35	RV6NHZ	188,156	551	4	64															
DL1OTUM*	12,673	102	0	29	PA2W*	22,925	133	0	35	RV6NHZ	188,156	551	4	64															
DJ2JY*	11,475	100	0	27	PA0WRS	19,698	63	6	43	RV6NHZ	188,156	551	4	64															
DL0BJ*	11,430	81	0	30	PE2JMR*	17,754	109	0	33	RV6NHZ	188,156	551	4	64															
DR6J*	11,422	83	0	29	PC7V*	14,152	100	0	29	RV6NHZ	188,156	551	4	64															
DL2KUF	11,340	63	0	36	PA0KHS*	13,300	98	0	28	RV6NHZ	188,156	551	4	64															
DJ2SL*	10,404	56	0	36	PA4CW*	9,576	69	0	28	RV6NHZ	188,156	551	4	64															
DK0W*	10,140	93	0	26	PA3CNI*	3,080	26	1	21	RV6NHZ	188,156	551	4	64															
DL2AXM*	9,975	96	0	25	PA0RBO/Q	2,478	36	0	14	RV6NHZ	188,156	551	4	64															
DLANT*	7,290	57	0	27	PA0B*	1,860	31	0	12	RV6NHZ	188,156	551	4	64															
DH6DAO*	6,480	66	0	27	PA9CW	1,358	20	0	14	RV6NHZ	188,156	551	4	64															
DL1BUT*	5,148	48	0	22						RV6NHZ	188,156	551	4	64															
DD0YD*	5,130</																												



NORTH CAROLINA				AFRICA				NEW ZEALAND				PENNSYLVANIA											
AA4VV	163,280	453	53	7X0RY	780,325	860	27	DL60V	48,972	237	0	ZL6QH	212,934	324	49	20	W3BGN	220,806	819	55	39		
K3KO	138,570	530	56	CT3FN	1,317,232	1182	49	DK30J	47,950	195	0	ZL4AA	13,369	53	25	4	W3TS	107,867	889	57	12		
K4CZ	56,548	325	51	MADEIRA IS				DL5DM	41,904	160	1	SOUTH AMERICA				W3GH	120,470	733	57	13			
W3GO	6,528	80	33	1,317,232	1182	49	63	DL3BXH	39,552	180	4	BRAZIL				W3SO	44,250	327	53	6			
SOUTH CAROLINA				MOROCCO				SOUTH AMERICA				CURACAO				N3YV							
AA4V	152,536	523	55	2,082,380	2207	55	85	DN4N	35,640	180	0	300,288				317	48	48	39	4			
TENNESSEE				SUDAN				SOUTH AMERICA				CURACAO				N3WZ							
N4DD	351,728	1238	58	679,150	801	27	58	DL2LH	34,639	142	0	2,047,480				1516	58	78	48	39			
N4VV	181,968	616	57	ASIA				SOUTH AMERICA				CURACAO				N3XZ*							
W6UB	36,820	165	46	ASIATIC RUSSIA				SOUTH AMERICA				CURACAO				N3XZ*							
VIRGINIA				ASIA				SOUTH AMERICA				CURACAO				CURACAO							
KT3Y	411,279	1055	58	352,625	596	0	65	DL3ARM	23,829	131	0	CW CHECK LOGS				K3FZN*							
N4BAA	369,576	1031	58	163,989	344	0	57	DL4KUG	22,102	101	0	Thanks to the following stations for their valuable CW check logs:				K3A3F*							
W4RMR	357,372	1129	58	88,920	253	0	39	DL9NCR	11,748	75	0	425CX, 4Z5SG, A35RK, DK4WF, DJ5OW, DL1DUO, DL4HWI, DL5MG, HA/SP7JLH, ISYKO, IZ4DZD, K3JXO, KF7PG, KT0P, LA4NE, LA4OGA, LA9TJA, LZ1JZ, OH5NZ, OH5PT, OK1D5Q, R1FJT, RA3DXD, RL3BM, RN3RAM, RN6FK, RU3DM, RU3SD, RU6YV, RZ3AAW, RZ3EC, SK0TM, SM0HRP, SMSARL, SMSGLE, SMSINC, SM7BAE, SM7COY, SP6CZ, SV1CIB, T92D, T96Q, U1ATAE, UA3AGV, UA4ALU, UA4YA, UA9CL, UA9YAD, UN6T, UN7TW, UT3NF, UX1L, W4BCB, WB5EXI.				10,030				134	33	1	2
N2OT	183,120	487	57	EUROPE				SOUTH AMERICA				CURACAO				K3A3F*							
AJ3G	122,715	597	56	ALAND ISLANDS				SOUTH AMERICA				CURACAO				K3A3F*							
K1KO	55,703	464	48	ALAND ISLANDS				SOUTH AMERICA				CURACAO				K3A3F*							
W4FEG	34,770	246	48	ALAND ISLANDS				SOUTH AMERICA				CURACAO				K3A3F*							
W4HZ	33,916	222	52	ALAND ISLANDS				SOUTH AMERICA				CURACAO				K3A3F*							
W4JVN	22,516	161	39	ALAND ISLANDS				SOUTH AMERICA				CURACAO				K3A3F*							
LOUISIANA				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
K5FMC	174,924	848	57	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
W5WMMU	65,416	342	51	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
K6SVK	42,822	366	50	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
MISSISSIPPI				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
W5XX	177,444	694	55	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
W5TL	1,464	13	1	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
NEW MEXICO				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
N5IA	395,220	1316	58	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
OKLAHOMA				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
W5TM	379,756	1253	58	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
TEXAS				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
K5NA	170,248	551	55	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
W5UC	2,016	22	12	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
CALIFORNIA				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
N6DZ	162,936	826	56	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
K9YC	109,277	612	54	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
N6K1	29,478	246	46	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
W6FRH	28,362	186	46	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
A6DZJ	21,712	194	39	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
ARIZONA				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
N7KQ	45,864	269	48	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
KY7M	26,676	178	45	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
N7MAL	6,815	105	26	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
OREGON				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
K7RAT	289,562	1121	58	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
UTAH				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
NS7K	93,060	606	56	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
WASHINGTON				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
K7OX	198,288	890	59	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
N7ZG	60,475	430	52	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
W1APMA	32,635	213	55	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
AK7S	1,708	52	13	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
MICHIGAN				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
K8XXX	407,333	1285	58	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
K8GC	388,930	1175	57	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
OHIO				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
K1LT	418,194	1049	58	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
N8TR	201,936	512	57	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
K8MP	119,209	717	56	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
K8DO	100,536	587	56	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
WTRC	51,688	269	52	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
AC8E	27,280	202	49	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
A8LL	396	15	1	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
WEST VIRGINIA				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
N8T	802,880	1616	58	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
AJ1M	54,945	450	53	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
ILLINOIS				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
K9NR	316,220	1255	58	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
N2BJ	45,960	328	52	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
KM9M	25,200	227	45	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
INDIANA				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
KE9I	415,184	1299	58	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
W9IU	346,196	1198	59	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
WISCONSIN				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
W0AIH	306,219	1151	59	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
K9K9	108,040	541	53	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
NE9U	69,048	462	54	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
K91MM	62,205	380	52	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
COLORADO				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
K0RF	379,538	1235	58	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
W0CG	151,200	767	56	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
KJ0G	81,900	528	52	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
K0UK	69,156	414	54	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
IOWA				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
K0KT	202,952	930	57	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
MINNESOTA				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
K0KX	91,976	423	56	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
KTOR	97,131	599	57	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
W0MR	80,015	542	54	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
K4IU	40,242	312	53	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
N0AT	27,170	205	48	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
CANADA				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
VE2ZM	1,877,697	1782	58	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
QUEBEC				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
VE2OJ	372,882	859	58	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
ONTARIO				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
VE3MS	150,626	538	51	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
ALBERTA				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
VE6GJ	16,388	103	33	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
MEXICO				EUROPE				SOUTH AMERICA				CURACAO				CURACAO							
6H1TD	33,044	151	40	EUROPE				SOUTH AMERICA				CURACAO				CURACAO							



