

A Contest for the Ages

Results of the 2009 CQ WW DX 160 Meter Contests

BY ANDY BLANK,* N2NT

If you've ever wondered what a single-band contest would be like on 20 meters, the 2009 version of the CQ WW DX 160 CW Contest just may have been it. What a weekend. Fabulous conditions at the bottom of the cycle. DX was plentiful and worked from virtually anywhere. Records were shattered across the board. It was truly a contest for the ages.

A review of the solar conditions from Spaceweather.com for the CW contest dates showed extremely quiet conditions. The K-index remained at zero all three days. While this is not always a good predictor of 160-meter propagation, it produced a fantastic weekend. Just how good were the conditions? Here is a list of just some of the records that were broken on CW:

Single Operator Europe by GM3POI.....	2,058,632
Multi-Operator Europe by ES9C.....	2,011,320
Multi-Operator North America by VY2ZM.....	2,423,796
Multi-Operator South America by PJ2T.....	2,065,700
Single Operator USA by K1DG.....	1,263,414
Multi-Operator USA by W2GD.....	1,227,944
Single Operator LP USA by WA1Z.....	426,532
Single Operator QRP USA by K9AY.....	205,202
Single Operator LP Canada by VE3DO.....	783,972

A great job by all the stations involved. Barring a repeat performance from the propagation gods, these records may last a long time.

The top number of multipliers worked on CW was 95 by the crews at HG8DX and UU7J, closely followed by ES9C and RK2FWA with 94. Such totals were never dreamed of just a few years ago. As an illustration of the type of conditions here are two log extracts:

QSO: 1834 CW 2009-01-25 0813 K1DG	599 ME	RA0LV	599 19
QSO: 1834 CW 2009-01-25 0815 K1DG	599 ME	AE6Y	599 CA
QSO: 1834 CW 2009-01-25 0816 K1DG	599 ME	OH1LEU	599 15
QSO: 1834 CW 2009-01-25 0818 K1DG	599 ME	W7IZL	599 NE
QSO: 1834 CW 2009-01-25 0819 K1DG	599 ME	NN7ZZ	599 UT
QSO: 1812 CW 2009-01-25 0829 K1DG	599 ME	CX6VM	599 13
QSO: 1814 CW 2009-01-25 0834 K1DG	599 ME	JH2FXK	599 25
QSO: 1814 CW 2009-01-25 0836 K1DG	599 ME	W6NWS	599 NC
QSO: 1814 CW 2009-01-25 0841 K1DG	599 ME	PA0WRS	599 14
QSO: 1814 CW 2009-01-25 0843 K1DG	599 ME	K3NM	599 PA
QSO: 1814 CW 2009-01-25 0844 K1DG	599 ME	JA7NI	599 25
QSO: 1814 CW 2009-01-25 0848 K1DG	599 ME	PY5EW	599 11
QSO: 1814 CW 2009-01-25 0848 K1DG	599 ME	G3LZQ	599 14
QSO: 1814 CW 2009-01-25 0852 K1DG	599 ME	LA1PHA	599 14
QSO: 1814 CW 2009-01-25 0856 K1DG	599 ME	K0MD	599 MN
QSO: 1814 CW 2009-01-25 0858 K1DG	599 ME	AA0AW	599 MN
QSO: 1814 CW 2009-01-25 0858 K1DG	599 ME	LA8AJA	599 14
QSO: 1814 CW 2009-01-25 0901 K1DG	599 ME	JQ2VVH	599 25
QSO: 1814 CW 2009-01-25 0903 K1DG	599 ME	OH3SR	599 15
QSO: 1841 CW 2009-01-25 0922 K1DG	599 ME	WF4U	599 UT
QSO: 1843 CW 2009-01-25 0928 K1DG	599 ME	KH6CC	599 31

Note that these QSOs were made from the farthest point north-east in the USA, and K1DG was working almost every continent at the same time! It was broad daylight in Europe yet Scandinavian stations being near the gray line still had propagation. JA stations from Maine are a rarity indeed, but were not on this 160 CW weekend.

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Here is the USA CW champ, Doug, K1DG, at his island QTH in Maine, proud to set a new record!

Similarly, look at the same time period in the VY2ZM log:

QSO: 1823 CW 2009-01-25 0923 VY2ZM	599 PEI	JR1IJV	599 25
QSO: 1821 CW 2009-01-25 0931 VY2ZM	599 PEI	JA8BNP	599 25
QSO: 1821 CW 2009-01-25 0931 VY2ZM	599 PEI	JA7OEM	599 25
QSO: 1821 CW 2009-01-25 0932 VY2ZM	599 PEI	J11NJC	599 25
QSO: 1821 CW 2009-01-25 0933 VY2ZM	599 PEI	JA9CHI	599 25
QSO: 1821 CW 2009-01-25 0934 VY2ZM	599 PEI	JA3USA	599 25
QSO: 1821 CW 2009-01-25 0935 VY2ZM	599 PEI	JA8DMB	599 25
QSO: 1821 CW 2009-01-25 0935 VY2ZM	599 PEI	JK1GKG	599 25
QSO: 1821 CW 2009-01-25 0937 VY2ZM	599 PEI	JH2RMU	599 25
QSO: 1821 CW 2009-01-25 0938 VY2ZM	599 PEI	JA1EOD	599 25
QSO: 1821 CW 2009-01-25 0938 VY2ZM	599 PEI	JA1FNA	599 25
QSO: 1821 CW 2009-01-25 0939 VY2ZM	599 PEI	JH1OGC	599 25
QSO: 1821 CW 2009-01-25 0940 VY2ZM	599 PEI	JH7NTJ	599 25
QSO: 1821 CW 2009-01-25 0940 VY2ZM	599 PEI	JA1HSF	599 25
QSO: 1821 CW 2009-01-25 0941 VY2ZM	599 PEI	JK1OPL	599 25
QSO: 1821 CW 2009-01-25 0942 VY2ZM	599 PEI	JR3GWZ	599 25
QSO: 1821 CW 2009-01-25 0943 VY2ZM	599 PEI	JK1BQS	599 25
QSO: 1821 CW 2009-01-25 0943 VY2ZM	599 PEI	JH1HDT	599 25
QSO: 1821 CW 2009-01-25 0944 VY2ZM	599 PEI	JA1XQC	599 25
QSO: 1821 CW 2009-01-25 0944 VY2ZM	599 PEI	JA1ADT	599 25
QSO: 1821 CW 2009-01-25 0945 VY2ZM	599 PEI	UA0SR	599 18
QSO: 1821 CW 2009-01-25 0945 VY2ZM	599 PEI	JF2SKV	599 25
QSO: 1821 CW 2009-01-25 0947 VY2ZM	599 PEI	JA7KY	599 25
QSO: 1821 CW 2009-01-25 0948 VY2ZM	599 PEI	JP1FHC	599 25
QSO: 1821 CW 2009-01-25 0949 VY2ZM	599 PEI	JA1EOD	599 25
QSO: 1821 CW 2009-01-25 0950 VY2ZM	599 PEI	JH4IFF	599 25

What a run of JAs from Prince Edward Island! Also, there were more than these. Working just one JA station from there in prior years was considered quite an accomplishment.

It seemed that stations at the northern latitudes had a "duct," as it was not quite as good to the south. However, it was good enough such that scores across the board were much higher than usual.

Another notable accomplishment was that of VE3EY. Nick grabbed the top spot in Canada on both CW and SSB! This year we offered a new trophy for the combined winner of CW and

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The Multi-Op team at EC1KR used this "vertical" to claim the number 2 spot in Spain on SSB.

SSB, which Nick also grabbed for a total of three trophies! Better make some wall space, Nick.

CW Results

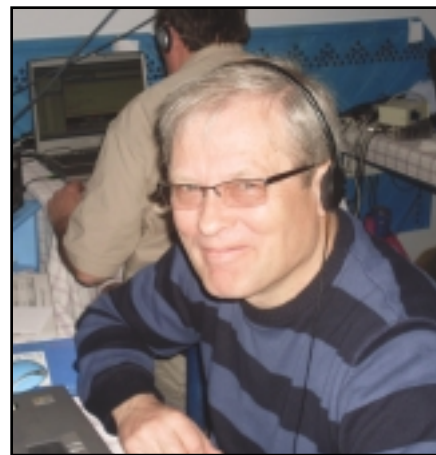
Valery, RD3AF, operated from the zone 33 super station of EA8AH and just edged out Clive, GM3POI, for the world top spot in Single Operator. The scores were very close. This was quite an accomplishment by Clive, due to the point structure of the contest. GM3POI managed over 600 more QSOs than EA8AH, but needed just one more multiplier to put him over the top. Nevertheless, it was a great competition, with M6T and OHØE following close behind.

In the USA, congratulations go to "top-band newcomer" Doug, K1DG, operating from his island QTH in Maine and winning the Single Op category for the USA. The competition was fierce, with W8JI, K3ZM (last year's champ), and K9DX all within 10% of each other. Special mention goes to K7RAT and W2VJN from the west coast of the USA with scores that in "normal" years would have made the top ten! In Canada, VE3EY took top spot, with VE3EJ and VE2TZT in a dead heat close behind.

In the Low Power section, Ivan, VE3DO, ran away with the world top spot.



The neat shack at ES9C with Arvo, ES2MC, and Tonno, ES5TV, who took number 4 world Multi-Op CW with over 2-million points!



Why is this man smiling? The number 1 SSB score in the world outside W/VE went to Joseph, F6CTT.

VE3DZ and 9A2AJ grabbed the next two slots, and special mention to Bob, WA1Z, for sneaking into the top six from the USA.

In QRP, Gary, K9AY, used his famous loops to grab the number 1 spot in the world! Perennial QRPer Pat, N8VW, was close behind along with Jarda, OK7U. Jarda has written an article about the contest and his experience along with some audio recordings at <<http://www.599.cz/view.php?cisloclanku=2009090901>>. You can see how even with less than 5 watts, good conditions on topband can produce worldwide QSOS.

In the Multi-Operator division, huge scores were made. The world leader was the team at CT9M with over 2.4 Meg! But wait, as VY2ZM was also over 2.4 Meg and PJ2T had over 2 Meg. But wait again . . . so did ES9C! What a great competition in Multi-Op, with CN3A, MD4K, and others not far behind. Considering the point structure, having VY2ZM so close to a station in Africa is also quite an accomplishment.

In the USA, the competition was just as fierce. The gang at W2GD just edged out



The 4Z5J team of 4Z5KJ, 4X6ZK, RV2FW, and 4Z5TA proudly display their "Millionaire" score after the contest was over.

WE3C by a margin of only 7000 points! There was only a difference of 20 QSOs in the two logs. While WE3C had six more multipliers, the GD boys worked more 10-pointers to take the victory. K9RS and K1LZ were not far behind the leaders either in this fiercely competed category.

The new Assisted category proved to be very popular, especially in Europe. Harry, RA3AUU, operated from his Cyprus QTH at P33W for the world top spot. SN3R and SP3BQ took the next two slots with very close scores from SP-land. LY2IJ and ON4UN also had big Assisted scores. In the USA, N2NT (your reporter) decided to try Assisted, knowing I could not compete with the "big guns." Somehow I slid by the always top-showing Bob, W4MYA. K5NA and K1LT had great scores as well from much farther west.

Millionaires Club

This year there were so many big scores in the CW contest that we decided to include a list of all stations scoring over 1-million points (see the Millionaires Club box). Hopefully, the list will be that long next year, but it could be a once-in-a-lifetime lengthy list. Congratulations to all the Millionaires for a great achievement!

SSB Results

A repeat performance of the CW conditions was a tall order and not expected. While not the once-in-a-lifetime conditions of CW, they were pretty good, to say the least. I, who do not rank 160 SSB as one of my favorite modes, had a nice run of DX stations around EU sunrise, as did many others. This made the contest a lot more fun than the usual grind.

In the Single Op category, F6CTT took the world top spot with over 600K, a great job by Joseph, who credits his Beverage arrays with helping him receive the weak ones. He was followed closely by HG3A, ZF2AM, and EA8AH. In the USA, Jerry, WB9Z, edged out Paul, N4PN, from the QTH of Tom, W8JI, by less than 1%. Paul had more multipliers, but Jerry's extra 250 QSOs did the trick. On the Canadian side, VE3EY ran away with over 786K, followed by VA3KA and VE3AP.

Single Op Low Power yielded some nice competition from the Caribbean. Tony, KP4KE, took the top spot with topband regulars CM6RCR and HI3TEJ, third and fourth, respectively. Another regular, Yasar, TA3D, was number 2. In Canada, VA3YP grabbed the top spot, followed by VE3UK. The USA had a very tight competition between K1EP and K1HTV with K1EP a mere 2% ahead.

Millionaires Club 2009

CT9M	2,447,836	W8JI	1,249,032
VY2ZM	2,423,796	*ON4UN	1,242,210
EA8AH	2,078,352	DR1A	1,230,516
PJ2T	2,065,700	W2GD	1,227,944
GM3POI	2,058,632	WE3C	1,220,632
ES9C	2,011,320	K3ZM	1,211,763
CN3A	1,908,748	K9RS	1,187,894
MD4K	1,849,637	SK7DX	1,184,375
*P33W	1,820,799	G3BJ	1,177,671
OM8A	1,815,328	ON4VW	1,155,066
HG8DX	1,776,600	LX7I	1,138,878
RK2FWA	1,724,310	ER0VW	1,115,979
M6T	1,723,275	4O3A	1,115,934
OH0E	1,709,907	K9DX	1,107,744
TM6M	1,622,888	VE3EJ	1,094,300
OM7M	1,607,886	VE2TZT	1,089,533
OK5W	1,484,304	K1LZ	1,077,780
S51TA	1,479,324	UP2L	1,064,805
*SN3R	1,467,955	I4EAT	1,062,720
4Z5J	1,400,704	XE1RCS	1,061,739
OZ7YY	1,397,451	OG2P	1,058,445
UA2FW	1,394,976	*UA6LV	1,058,205
*SP3BQ	1,368,840	*ES5QX	1,052,323
VE3EY	1,366,774	OH8X	1,048,875
CU2X	1,358,532	W1UE	1,044,725
HG3A	1,354,782	DL1AUZ	1,021,853
E7DX	1,351,104	YU1EXY	1,017,875
K1DG	1,263,414	DJ0MDR	1,016,064
*LY2IJ	1,261,656	K1TTT	1,006,236
UU7J	1,254,448		*Assisted

WB4MSG, S59D, and W4TMR fought for the QRP top spot in the world with very close scores. Sam, WB4MSG, won the world with almost 54K! Great job by all. SSB contesting on 160 is hard enough let alone with less than 5 watts!

The gang at HG8DX took the top Multi-Op spot with over 800K, the highest score in the contest. There were no Millionaires on SSB, compared to 59 on CW. E7DX and DR1A were second and third from the DX side. In the USA, top honors went to the WE3C crew, who edged out K1LZ and N2CW. Multi-Op USA has become hotly contested with more and more challengers each year.

Of the over 1000 logs submitted, 200 were in the new Assisted category, showing great support. S57DX and LY4A took first and second in the world separated by only 6%. N8TR took number 3 world and number 1 USA with almost 350K! OE3DWC and CT9L had nice scores on the EU side. K3WW was number 2 in the USA, and VA3DX grabbed the number 1 spot in Canada.

Special mention goes to Paige, N2PKP, who made 254 QSOs at the age of 9, and to W4OGG, who made 42 QSOs at the age of 91! Great job by both. Can anyone top that?

Club Scores

Once again the Bavarian Contest Club (BCC) showed it is the king of the CQ 160 M Contest with 187 entries. They blew away the USA clubs, Yankee Clipper Contest Club (YCCC) and Potomac Valley Radio Club (PVRC) by almost 10-million points! Great job! Remember, the Club competition is just for fun and bragging rights. Please remember to use the approved name and abbreviation of the club, otherwise the scores will not be counted properly.

Rule Changes for 2009

The overwhelming consensus was that the rule changes were a complete success. The contest had the sound of a typical CQWW with DX stations sending their zones instead of the old arbitrary country abbreviation. The addition of an Assisted category was very well received. There were no complaints about the hours limitation for multi-ops, probably because almost

2009 PLAQUE DONORS AND WINNERS

CW SINGLE OPERATOR

WORLD by Bill Tippet, **W4ZV (DJ8WL Memorial)**: Winner EA8AH (Op. Valery Komarov, RD3AF)
USA by Ken Byers, **K4TEA**: Winner Doug Grant, K1DG
CANADA by Alabama Contest Group: Winner Nick Letic, VE3EY
ZONE 3 by Milt Jensen, **N5IA**: Winner K7RAT (Op. Larry "Tree" Tyree, N6TR)
ZONE 4 by Steve Schmidt, **K4WA**: Winner John Battin, K9DX
USA ZONE 5 by Paul H. Newberry, Jr., **N4PN**: Winner W8JI (Op. Jim Roberts, VE7ZO)
AFRICA by James "Skip" Riba, **WS9V**: Winner Larry Arneson, VQ9LA
ASIA by Missouri DX/Contest Club: Winner Nodir Tursoon-Zadeh, EY8MM
EUROPE by John Battin, **K9DX**: Winner Clive Penna, GM3POI
SOUTH AMERICA by John Rodgers, **WE3C**: Winner Al Van Buren, CE1/K7CA
OCEANIA by John Battin, **K9DX**: Winner Mirek Rozbicki, VK6DXI
JAPAN by Alabama Contest Group: Winner Masaki Okano, JH4UYB
NORTH AMERICA by CQ magazine (**N4IN Memorial**): Winner Richard Strand, KL7RA
ASSISTED WORLD by Andy Chesnokov, **UA3AB**: Winner P33W (Op. Igor Booklan, RA3AUU)
ASSISTED EUROPE by Carsten-Tomas Dauer, **DL2OBO**: Winner Bogdan Chorazyk, SN3R
ASSISTED USA by Akira Nagi, **JA5DQH**: Winner Andrew Blank, N2NT
LOW POWER WORLD by Ed Parish, **K1EP**: Winner Ivan Payne, VE3DO
LOW POWER USA by Rich Kennedy, **N4ESS**: Winner Bob Raymond, WA1Z
LOW POWER CANADA by Contest Club Ontario: Winner: Yuri Onipko, VE3DZ
QRP WORLD by Wayne Mills, **N7NG**: Winner Gary Breed, K9AY
QRP USA by Bob Raymond, **WA1Z**: Winner Pat Collins, N8VW
QRP EUROPE by Gary Breed, **K9AY**: Winner Jaroslav Chmelik, OK7U

MULTI-OPERATOR

WORLD by Hugh Valentine, **N4RJ**: Winner CT9M (Ops. OM3BH, OM3GI)
USA by **W8UVZ, W0CD, K8GG**: Winner W2GD (Ops. K2PS, K2SG, K2TW, N2HM, N2OO, W1GD, W2CG, W2GD, W2NO, W2OB, W2RQ)
Zone 3 by Riki Kline, **K7NJ/4X4NJ**: Winner: NK7U (Ops. NK7U, KL2A)
EUROPE by SKY Contest Club: Winner: ES9C (Ops. ES2DW, ES2MC, ES2RR, ES5JR, ES5RY, ES5GP, ES5TV)

SSB

SINGLE OPERATOR

WORLD by Bill Barr, **N4NX**: Winner Joseph Cornee, F6CTT
USA by David Thompson, **K4JRB**: Winner Jerry Rosalius, WB9Z
CANADA by Alabama Contest Group: Winner Nick Letic, VE3EY
USA ZONE 3 by Dr. Larry Flegle, **N4TMW**: Winner Jim Stevenson, W6YI
USA ZONE 4 by Alabama Contest Group: Winner Mike Kelly, W0EWD
USA ZONE 5 by Jim Monahan, **K1PX**: Winner Paul Newberry, N4PN
AFRICA by Carl Henson, **WB4ZNH**: Winner Pekka Kolehmainen, EA8AH
ASIA by Ed Campbell, **NX7TT**: Winner: Yasaar Gocet, TA3D
EUROPE by James "Skip" Riba, **WS9V**: Winner Istvan Vajda, HG3A
NORTH AMERICA by CQ magazine (**K2EEK Memorial**): Winner: John Barcroft, ZF2AM
SOUTH AMERICA by John Rodgers, **WE3C**: Winner Alberto Pincay, HC2AQ
OCEANIA by Al Teimurazov, **4L5A**: Winner Ron Tremayne, VK3IO
ASSISTED WORLD by Ray Sokola, **K9RS**: Winner Slvko Celarc, S57DX
ASSISTED EUROPE by Braco Memic, **OE1EMS**: Winner Rolandas Jokubauskas, LY4A
ASSISTED USA by Mississippi Valley DX and Contest Club: Winner Pete Michaelis, N8TR
LOW POWER WORLD by Howard Klein, **K2HK**: Winner: Tony Ramos, KP4KE
LOW POWER USA by Boring ARC Winner: Ed Parish, K1EP
LOW POWER EUROPE by Contest Club Ontario: Winner Bela Nagy, HA8BE
LOW POWER CANADA by Rudy Bakalov, **N2WQ**: Winner Rasim Raco Hiric, VA3YP
QRP WORLD by Mike Schwieterman, **K7MS**: Winner Samuel Bowman, WB4MSG


MULTI-OPERATOR

WORLD by Southeast DX Club: Winner HG8DX (Ops. HA4FF, HA8DJ, HA8DU, HA8DZ, HA8EK, HA8FM, HA8FW, HA8JV)
USA by Jerry Rosalius, **WB9Z**: Winner WE3C (Ops. WE3C, W3FV, NN3Q, KQ3V, KF3B)
Zone 3 by Riki Kline, **K7NJ/4X4NJ**: Winner NK7U (Ops. NK7U, K7ZO)
EUROPE by SKY Contest Club: Winner E7DX (Ops. E70T, E77DX)

SINGLE OPERATOR CW/SSB

WORLD COMBINED by Alex Tkatch, **KU1CW**: Winner Nick Letic, VE3EY



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3CX100A5	4CX250B	4CX15000A	845
3CX400A7	4CX250BC	4X150A	866-SS
3CX400U7	4CX250BT	YC-130	5867A
3CX800A7	4CX250FG	YU-106	5868
3CX1200A7	4CX250R	YU-108	6146B
3CX1200D7	4CX350A	YU-148	7092
3CX1200Z7	4CX350F	572B	3-500ZG
3CX1500A7	4CX1000A	805	4-400A
3CX2500A3	4CX1500A	807	M328/TH328
3CX2500F3	4CX1500B	810	M338/TH338
3CX3000A7	4CX3000A	811A	M347/TH347
3CX6000A7	4CX3500A	812A	M382

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Here is a rare photo of Clive, GM3POI, operating from his Orkney QTH. Clive came oh so close to winning the world on CW.

everyone broke their respective records! The earlier start times also produced very few complaints.

There were a total of 2232 logs, including checklogs, received for CW (1529 Single Op, 449 Assisted, 178 Multi-Op) and 1096 for SSB (790 Single Op, 200 Assisted, 87 Multi-Op). Thanks to all for your participation and log submission. Each year these totals are increasing, showing the CQ 160 to be growing in popularity every year.

An Experiment in Log Checking

As technology progresses, there are more and more tools available to the average contester. One such tool is the CW Skimmer. Use of the Skimmer puts an operator into the Assisted category. However, what if it were used in reverse? How about recording the entire contest?

Well, thanks to the efforts of K3LR, PA5KT, N4ZR, N8BJQ, EA1/DH1TW, and K1DG, we successfully placed Skimmers around the world to record the contest. We actually were able to listen to log segments from virtually any station. It was an enormous amount of data, fitting only on a 500-GB HDD. After the contest, the disks were sent to the committee for analysis. In conjunction with the log-checking software written by Tree,

TOP 10 SCORES

<p>CW SINGLE OPERATOR USA</p> <p>K1DG.....1,263,414 W8JI.....1,249,032 K3ZM.....1,211,763 K9DX.....1,107,744 W4ZV.....929,920 W0SD.....919,170 AA1K.....903,258 K8PO.....889,127 NR4M.....862,960 WB9Z.....862,635</p> <p>VE</p> <p>VE3EY.....1,366,774 VE3EJ.....1,094,300 VE2TZT.....1,089,533 CG3AT.....997,542 VE3JM.....970,266</p> <p>West Coast USA</p> <p>K7RAT.....695,394 W2VJN.....481,850 W7EW.....406,593 AC6DD.....382,336 K8IA.....375,273</p> <p>QRP</p> <p>K9AY.....205,202 N8VV.....198,048 OK7U.....174,120 VE3MGY.....138,915 OK2BYW.....118,030</p> <p>DX</p> <p>EA8AH.....2,078,352 GM3POI.....2,058,632 M6T.....1,723,275 OH0E.....1,709,907 OZ7YY.....1,397,451 CU2X.....1,358,532 HG3A.....1,354,782 G3BJ.....1,177,671 LX7I.....1,138,878 ER0WW.....1,115,979</p> <p>LOW POWER WORLD (TOP 6)</p> <p>VE3DO.....783,972 VE3DZ.....554,830 9A2AJ.....515,790 HA8BE.....490,723 WA1Z.....426,532 YT8A.....411,445</p>	<p>LOW POWER W/VE (TOP 6)</p> <p>VE3DO.....783,972 VE3DZ.....554,830 WA1Z.....426,532 N2WN.....350,436 K1EP.....346,896 W3EF.....290,398</p> <p>QRP W/VE (TOP 5)</p> <p>K9AY.....205,202 N8VV.....198,048 VE3MGY.....138,915 VE3FRX.....101,931 K9FO.....96,152</p> <p>MULTI-OPERATOR WORLD</p> <p>CT9M.....2,447,836 VY2ZM.....2,423,796 PJ2T.....2,065,700 ES9C.....2,011,320 CN3A.....1,908,748 MD4K.....1,849,637 OM8A.....1,815,328 HG8DX.....1,776,600 RK2FWA.....1,724,310 TM6M.....1,622,888</p> <p>MULTI-OPERATOR W/VE</p> <p>VY2ZM.....2,423,796 W2GD.....1,227,944 WE3C.....1,220,632 K9RS.....1,187,894 K1LZ.....1,077,780</p> <p>ASSISTED WORLD</p> <p>P33W.....1,820,799 SN3R.....1,467,955 SP3BQ.....1,368,840 LY2IJ.....1,261,656 ON4UN.....1,242,210 UA6LV.....1,058,205 ES5QX.....1,052,323 OH4A.....992,960 YU1LA.....977,900 UW2M.....940,632</p> <p>ASSISTED W/VE</p> <p>N2NT.....936,526 W4MYA.....909,696 K5NA.....767,181 K1LT.....685,952 N3KS.....633,906</p>	<p>SSB SINGLE OPERATOR USA</p> <p>WB9Z.....512,316 N4PN.....508,320 K8PO.....370,032 W3BGN.....323,442 W0EWD.....320,070 W3TS.....234,987 NR5M.....232,116 K3ZO.....228,475 K5NA.....206,486 N3HBX.....201,920</p> <p>VE</p> <p>VE3EY.....786,912 VA3KA.....489,365 VE3AP.....425,800 VE3TA.....158,508 VE3PN.....156,744</p> <p>Zone 3</p> <p>W6YI.....158,688 WA7LT.....105,927 N5LZ.....57,000 K0TO.....52,896 N7VF.....50,692</p> <p>QRP</p> <p>WB4MSG.....53,979 S59D.....50,750 W4TMR.....40,061 OK2BYW.....38,920 HA6IAM.....26,424</p> <p>DX</p> <p>F6CTT.....620,524 HG3A.....590,526 ZF2AM.....515,419 EA8AH.....512,631 SP7MTF.....367,852 9A2DQ.....347,340 YT3A.....345,197 CT3DL.....335,900 OK1NY.....307,233 *KP4KE.....306,022</p> <p>LOW POWER WORLD (TOP 6)</p> <p>KP4KE.....306,022 TA3D.....258,506 CM6RCR.....206,125 H13TEJ.....192,231 HA8BE.....161,823 VA3YP.....148,080</p>	<p>LOW POWER W/VE (TOP 6)</p> <p>VA3YP.....148,080 K1EP.....116,698 K1HTV.....113,764 VE3UK.....112,277 K0RH.....101,304 VE3MGY.....85,250</p> <p>QRP W/VE (TOP 5)</p> <p>WB4MSG.....53,979 W4TMR.....40,061 KD0R.....6,195 N1TM.....6,049 WF4U.....5,376</p> <p>MULTI-OPERATOR WORLD</p> <p>HG8DX.....805,194 E7DX.....705,665 WE3C.....545,589 DR1A.....512,424 K1LZ.....490,526 UU7J.....464,048 SN3R.....450,120 RW2F.....441,840 N2CW.....402,153 S56P.....376,820</p> <p>MULTI-OPERATOR W/VE</p> <p>WE3C.....545,589 K1LZ.....490,526 N2CW.....402,153 ND8DX.....372,993 W2MF.....349,783</p> <p>ASSISTED WORLD</p> <p>S57DX.....399,000 LY4A.....376,156 N8TR.....349,297 OE3DWC.....328,716 VA3DX.....308,740 CT9L.....291,662 9A3B.....275,575 K3WW.....274,000 VE3RZ.....273,568 W8MJ.....249,429</p> <p>ASSISTED W/VE</p> <p>N8TR.....349,297 VA3DX.....308,740 K3WW.....274,000 VE3RZ.....273,568 W8MJ.....249,429</p> <p><i>*Low Power</i></p>
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N6TR, we were able to accurately score more logs than ever before. Although there were no disqualifications, there were some questionable logs and warning letters were sent to the suspected stations.

Thanks to all for a great job and a major undertaking. Our hope is a more level playing field in the future will result from these efforts. If anyone is interested in the process used to make these recordings or the results, feel free to contact us at <questions@cq160.com>.

Expanded Results

For expanded results of the 2009 160

Meter Contest, including more QRM and a list of guest operators, go to the CQ website at: <www.cq-amateur-radio.com>.

Correction to the 2008 Results

Our apologies to Win, DK9IP, whose log was accidentally lost. His score of 678,824 placed him number 2 Single Op CW in Germany.

Special Thanks

The CQ 160 Contest Committee consists of all volunteers whose time and efforts are much appreciated. This year the awards and trophy programs were head-

ed up by Doug, K1DG, whose efforts resulted in many trophies being added. There were a total of 52 trophies offered this year, with gratitude to all the sponsors. We are also mostly caught up to prior years' awards. On the certificate side, Barry, W5GN, has vastly simplified and enhanced the process. All certificates should be mailed out shortly and be in winners' hands by the time of this publication. It is only through his generosity that this can get done so quickly.

On the log-checking side, once again Tree, N6TR, used his considerable software skills to score the logs. Tree has pro-

2009 CLUB SCORES

(Minimum of 3 three entries required for listing)

Score	#Entries	Club	Score	#Entries	Club
25,419,962	158	BAVARIAN CONTEST CLUB	709,721	5	NORTHERN ROCKIES DX ASSOCIATION
18,934,355	78	YANKEE CLIPPER CONTEST CLUB	663,051	4	TOP OF EUROPE CONTESTERS
17,510,622	128	POTOMAC VALLEY RADIO CLUB	656,199	16	SOUTHERN CALIFORNIA CONTEST CLUB
14,437,325	67	CONTEST CLUB ONTARIO	635,822	7	CTRI CONTEST GROUP
12,539,876	52	FRANKFORD RADIO CLUB	573,422	7	KENTUCKY CONTEST GROUP
11,418,113	81	RHEIN RUHR DX ASSOCIATION	563,372	3	LYNX DX GROUP
8,601,508	19	CONTEST CLUB FINLAND	539,494	9	NORTH COAST CONTESTERS
7,662,799	63	SOCIETY OF MIDWEST CONTESTERS	531,378	4	LU CONTEST GROUP
7,349,766	30	MAD RIVER RADIO CLUB	496,062	3	JABLANIK BEARS CONTEST CLUB
6,853,969	42	BLACK SEA CONTEST CLUB	489,766	9	SPOKANE DX ASSOCIATION
6,429,109	53	UKRAINIAN CONTEST CLUB	489,326	3	ORENBURG CONTEST CLUB
6,399,429	22	SLOVENIAN CONTEST CLUB	466,995	11	MARITIME CONTEST CLUB
5,196,059	5	UA2 CONTEST CLUB	463,297	4	ORDER OF BOILED OWLS OF NEW YORK
4,377,106	24	KAUNAS UNIV. OF TECH. RADIO CLUB	461,993	9	MOTHER LODE DX & CONTEST CLUB
4,106,156	39	TENNESSEE CONTEST GROUP	461,961	5	MOSCOW CONTEST CLUB
4,054,755	15	LATVIAN CONTEST CLUB	403,499	5	MISSOURI DX/CONTEST CLUB
4,028,118	39	SP DX CLUB	390,958	4	VOLYN CONTEST GROUP
4,006,502	16	CROATIA CONTEST CLUB	390,279	6	ALRS ST PETERSBURG
3,971,515	17	URAL CONTEST GROUP	363,318	4	SOUTHWEST OHIO DX ASSOCIATION
3,894,095	17	ALABAMA CONTEST GROUP	358,723	3	NEW MEXICO BIG RIVER CONTESTERS
3,617,024	30	TEXAS DX SOCIETY	340,692	3	LOUISIANA CONTEST CLUB
3,509,114	6	HA DX CLUB	338,850	9	MAGNOLIA DX ASSOCIATION
3,473,832	4	TARTU CONTEST TEAM	328,096	6	UTAH DX ASSOCIATION
3,411,621	12	YU CONTEST CLUB	322,039	8	WESTERN WASHINGTON DX CLUB
3,278,523	20	SOUTH EAST CONTEST CLUB	313,004	7	REDMOND TOP KEY CONTEST CLUB
3,084,973	22	FLORIDA CONTEST GROUP	307,185	3	CENTRAL SIBERIA DX CLUB
2,973,847	14	CHILTERN DX CLUB	294,704	5	VERON
2,728,838	9	BELOKRANJEC CONTEST CLUB	281,026	3	CZECH CONTEST CLUB
2,633,618	43	MINNESOTA WIRELESS ASSN	262,840	10	WILLAMETTE VALLEY DX CLUB
2,572,406	5	LITHUANIAN CONTEST GROUP	245,538	9	WEST PARK RADIOPS
2,211,163	6	BORING AMATEUR RADIO CLUB	203,303	6	CAROLINA DX ASSOCIATION
2,122,770	3	BHCC	178,667	4	KANSAS CITY DX CLUB
2,084,028	36	NORTHERN CALIF. CONTEST CLUB	178,224	7	ALLEGHENY VALLEY RADIO ASSOCIATION
1,872,336	17	RUSSIAN CONTEST CLUB	163,830	3	ARAUCARIA DX GROUP
1,849,783	5	HUNGARIAN DX CLUB	156,269	4	ROCHESTER DX ASSOCIATION
1,831,376	21	CENTRAL ARIZONA DX ASSOCIATION	155,167	5	RU-QRP
1,736,711	6	DANISH DX GROUP	129,089	4	RADIOAMATOR
1,647,509	9	CONTEST GROUP DU QUEBEC	112,536	5	DONBASS
1,616,280	10	VYTAUTAS MAGNUS UNIV. RADIO CLUB	111,920	5	SRR
1,455,355	8	BRITISH COLUMBIA DX CLUB	111,737	3	MARRAD
1,384,442	7	WESTERN NEW YORK DX ASSOCIATION	93,283	3	SAMARA RADIO CLUB
1,305,751	7	LOW COUNTRY CONTEST CLUB	85,950	3	HAROS RADIO CLUB
1,233,938	11	VRHNIKA CONTESTERS	78,507	4	METRO DX CLUB
1,202,793	18	HUDSON VALLEY CONTESTERS & DXERS	74,652	3	GERMAN DX FOUNDATION
1,123,684	8	WORLD WIDE YOUNG CONTESTERS	73,385	5	AMSTERDAM DX CLUB
929,711	14	GRAND MESA CONTESTERS OF COLORADO	57,718	3	AUSTRIAN CONTEST CLUB
750,453	18	DEUTSCH AMATEUR RADIO CLUB	40,529	5	PORTAGE COUNTY ARS
739,133	6	BELARUS CONTEST CLUB	40,449	3	UKRAINIAN DX CLUB

vided us with the most accurately scored logs in the contest's history. In conjunction with the worldwide Skimmer program, it was clear that the log-checking software was a very fair judge and all participants were scored in the correct order.

Also thanks to K5TR, K3BU, and the gang at the CQ WW Contest Committee for maintaining the web records and other information. There were many volunteers who helped type handwritten logs into the database. Please try to submit Cabrillo logs to minimize the amount of work necessary to score the contest.

Thanks to all the participants in this truly amazing year's event. See you next year!
73, Andy, N2NT

CW QRM

Hardest 20 contacts ever . . . **3A/K3OX**. Thank to all calling us! Nice propagation to USA on first night. Hope that new Asian record was set. Will try to improve results next year! . . . **4Z5J**. Another Field Day-style effort from the QARS gang here in Qatar. Great stuff, what a band! . . . **A71BX**. On 160 you put something, anything, up and then improve on it from there with a lot of help from your friends . . . **AD5VJ**. Great condx on Saturday morning. Never worked so many US and VE stations in one day! We missed our senior op DL9YX, who was out of order. Volker, we start next year again . . . **DF1HF**. 100 watts and a short inverted-L brings not much opportunity on 160. Nobody answered my long CQ TEST calls. Only some well-ear'ed chaps did it! . . . **EA3ALV**. Wow! All has been said already . . . **F6BEE**. The rule changes (i.e., 22z start and use of CQ Zone) are both most welcome. Congrats to CQ on picking a weekend with such good top band conditions! . . . **G3TXF**. Condx very good throughout, especially first night. Went to bed early on Saturday intending to arise early. The best intentions of mice and men? . . . **GW3JXN**. Worked last state, South Dakota! Tnx for "W0SD"! Big activity, nice contest, thanks for all QSOs! . . . **HA8BE**. My first contest on 160 band; it's great fun. Three verticals in wire with capacitance hats, in phase. PC program CT by K1EA . . . **IZ3ALF**. The conditions were the best in years. I heard 6 continents (AF: VQ9LA, SA: CE1/K7CA) and worked 5 continents (except CE1/K7CA by pile-up). My best QSO VY2ZM, Jeff, from PEI! . . . **JE1SPY**. There were always stations on noon to midnight. Wow, great band! . . . **K2VX**. Wow, what can I say. I have never experienced propagation to Europe from southern California on 160 like I did this weekend. I worked 43 EU stations in 24 different countries; that is two more EU countries than I have previously worked in my entire 160 meter career . . . **K6NR**. First time ever worked Europe on 160! . . . **K7DR**. Once in a lifetime conditions. We will be talking about this for years . . . **K9DX**. Had a great time. Condx were mostly quiet, heard DX, even if I couldn't crack the pile-ups, and found that even adding 3 new radials to my inverted-L improved it considerably. The usual "tip of the hat" to those great ops who pulled my 5W signal out of the noise . . . **KX7L**. Very difficult to work with low power from a valley but nice to hear many DXCCs also when I was not able to work all . . . **LX1ER**. Best conditions I have witnessed on 160m; worked over 600 USA alone, double our normal rate! . . . **MD4K**. In a word . . . outstanding!! I have never heard 160 meters in better shape, and that is for both nights of the contest. Lots of great signals, lots of great operators, lots of fun! . . . **N1LN**. Spectacular conditions made this one contest that won't soon be forgotten! Never would I have imagined working 49 states and 57 DXCC on 160m in one weekend. That's almost as many DXCC as I have worked in the past 10 years

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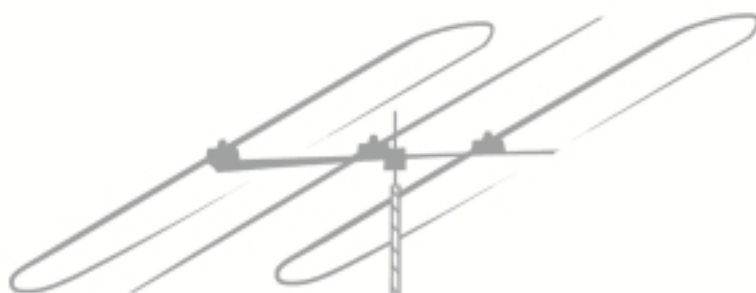
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on 160! . . . **N2WLG**. Wow. Just Wow . . . **N9ADG**. Great condx. First time we heard and worked zone 1 and zone 19 on top band . . . **OE2S**. Fantastic propagation. Once-in-a-lifetime North Pole opening to KH6 and KL7 . . . **OH0E**. What makes me happy is to see how many stations are now active on top band and how many have built excellent stations and are putting up very respectable scores . . . **ON4UN**. We have never worked so many JA stations on top band from the PJ2T station! We had a great time! . . . **PJ2T**. Good contest! See you in the next year! . . . **RV3LO**. Thanks for the contest . . . **RV4LC**. Directions to the west and east seemed to bring weak signals. All the game this time had been played over the North Pole. Thanks to all who called me, 73 Sergei UX1UA aka UV5U . . . **UV5U**. What absolutely AMAZING conditions! This was the first time that I'd ever had the pleasure of seeing 160 behave like an around-the-clock, open-24-hours type of band. How refreshing to work stations at high noon here for a change, and steadily, too, at that! . . . **VE3CUI**. Thanks to all those who called us in the contest. Polar conditions were superb at sunrise both mornings. We worked over 100 JA stations, many UA9's and UA0's and XU7ACY! . . . **VY2ZM**. This contest had it all. By far the best conditions I've ever seen on 160m during a contest. It was an absolute thrill of a lifetime . . . **W7RH**. Best conditions ever, more than 200 Europeans in the log. Working Nodir, EY8MM, was the cherry on top of our ice cream sundae . . . **XE1RCS**. This was my 9th CQ 160 CW contest in



Where are the loops? Here is Gary, K9AY, winner of the world QRP category on CW.



On the Cover

The O'Kains—Bill, K4LTA, and Ruby, K4UPS—have been ham radio fixtures in Oak Ridge, Tennessee for a half century. Bill says he owes both his hobby and his career to a ham in Little Rock, Arkansas.

Bill explained that he had been attending the University of Tennessee on a baseball scholarship in 1954 when a still-unexplained retinal hemorrhage robbed him of his eyesight. Attending a rehab center for the blind in Little Rock, Bill met Dick Freling, a successful insurance agent and W5TIZ. "We became great friends," said Bill, "and he was a great influence on my life."

After visiting Dick two or three times, Bill decided that he also wanted to go into the insurance business. He started his own agency back in Oak Ridge in January 1956, and ran it for 40 years before retiring. Toward the end of 1956, Bill got his ham license, and in 1960 Ruby became a ham as well.

On the air, Bill primarily enjoys CW contesting and DXing. His station consists of "pretty much all Ten-Tec gear," including two Omni-VIs, two Hercules amplifiers, and matching power supplies. He also has an Elecraft K2 for QRP (low power) work and a Kenwood TS-480 mobile rig in his van. The computer is used for logging and for sending code. "I use the keyboard if I'm at all serious about a particular contest," Bill noted. He says Ruby, who is retired from the computer science division of one of the companies in Oak Ridge, is not currently active on the air, but helps him out as his QSL manager and computer guru.

Bill and Ruby also enjoy traveling and plan to make their ninth trip to Grenada—and 19th to the Caribbean—in February. See more about Bill and Ruby in this month's "Zero Bias" editorial. (Cover photo by Larry Mulvehill, WB2ZPI)



This neat station belongs to Bob, WA1Z, who took top honors USA Low Power on CW.

row! Excellent conditions. Got PJ2T for SA and so my 160m WAC! Improved my best CQ 160 CW score by 20%! . . . **YO2IS**.

SSB QRM

Like every year in QRP. My best result ever, worked 33 countries. Mny tnx to all ops who listened to me . . . **DL7UMK**. First QSO with the USA on 160m . . . **DL8NB**. Our first multi participation in this fantastic contest. Happy to work nice DXCC on top band . . . **EC1KR**. SSB contesting on 160m is not for the faint-hearted! . . . **G3TXF**. Surprised myself by the number of countries that I could work with a limited aerial. Thanks to all who replied to my call . . . **GM4UBJ**. First attempt in a top band contest. Amusing and engaging. Due to Murphy's law discontinued participation . . . **IZ3IBL**. These were the first SSB QSOs I've ever made on 160. Highlight was AO1L actually hearing me for my first EU QSO on 160 . . . **K3TN**. Not many strong East Coast stations could hear me calling them. Some of those who did pull me out thanked me for a new mult. So you may ignore that weak station calling but it may be a new mult . . . **K7ACZ**. Highlights, C6 and KP2 land, and all the good friends :-). See you next year again, but hope in high power . . . **LX1ER**. Hard work. Congrats to everybody who heard me. Some very good ears on the band! . . . **OE9MON**. First time in a 160m contest, using my homemade 80m dipole and working barefoot . . . **PH0AS**. My first contest ever. Got my licence 8 days before the start of the contest. Happy for 28 countries! . . . **SA6BET**. Propagation was not very good, especially not to NA and even worse to Asia. Never worked or even heard JA or BY. A VU station was heard. Had hopes for A4 heard and worked a few stations in the West Indies but competition was big. Did however get my #102 with HI. My #101 was also worked within Europe in C3. So I am happy . . . **SG6T**. CQ WW 160 is one of our favourite contests. Bad condx to NA first night but good opening during second one. CU next year! . . . **UU7J**. This is one of the busiest contests, making it a challenge to find a spot to call CQ. We mostly worked North America with a great participation this year. We had fun working so many people . . . **VE3DC**. A good time was had by all. We had a new ham who gave HF and contesting a go and loved it . . . **W4NSC**. Fun as usual . . . **XE1RCS**. TNX contest QSOs! GL! . . . **YL2PP**.

(Continued on page 105)