

# Results of the 2003 CQ WW DX 160 Meter Contests

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**W**e now can add Prince Edward Island and Cape Verde Islands to the places to be for a 160 meter contest. Alex, 4L5A, operated D4B to a new contest record 1.5 million points CW. His SSB effort was second in the world Single Operator, too. Jeff, K1ZM, activated his VY2ZM super station for world high CW Multi-Operator, and then went Single Op SSB to achieve the high Single Op score. His Single Op effort was second only to UA9MA's Multi-Op effort from Cyprus. Gena calculates that once he can break into the U.S. midwest and west, he will break 1 million points on SSB. Jeff figures he can reach both Europe and North America for most of the day from Prince Edward Island at the sunspot minimum. So look out for bigger scores to be heading our way.

Both modes had a record number of logs with, 1148 CW and 519 SSB logs received. This is a whopping 30% increase over 2002. Throw in the check logs, and the total number of logs received broke 1700. Certainly the CQ 160 Meter Contests are the most popular 160 contests by a wide margin.

The master logs (after weeding out unverified uniques and busted calls) show 5132 different CW calls and 5120 SSB. This is another record and probably the cleanest master log we have ever had. The bonus is that this allows the scoring to be the most accurate, too. This is aided by electronic submission in Cabrillo format and the ability to convert the non-Cabrillo logs so that all but hand logs are checked in the same manner. RN6BN put 89 countries in the log, so the time is fast approaching for someone to make DXCC during the CW weekend. 141 countries are in the master log for CW and 133 for SSB, so the possibility is there.

## CW

D4B had the world high CW score (both Single and Multi-Op). His 1.5 million points set a new record for a score in either contest. FM5GU placed second with 741K. Bill, W4AN, again operated W8JI to top U.S. and placed 4th world Single Op. John, VE3EJ, placed 10th. It's nice to see the U.S. and Canada make the top 10. SN7Q (SP7GIQ) was high Europe and 3rd in the world. ZF2NT topped North America (outside W/VE) with his 5th place score. SO2R (SP2FAX), HA8DU, OZ7YY, and LY7Z placed 6th to 9th. 4X3A (4X4NJ) topped Asia



The antennas at RU3DX for the CW contest.

and just missed the top 10. Riki will be Stateside for the next five years assisting at the N7JW multi-op station. KH6ND operated KH7X (the Pacific Contest Club) to a new high Oceania score. W5SJ traveled to PYØFF and topped South America as PRØF.

The VY2ZM station ran up the high Multi-Op score and had the second overall contest score. PJ2X finished second not far behind, and CT3FN led by HB9CRV placed 3rd from Africa. KC1XX was the top U.S. Multi-Op, with W2GD and W1FJ in top 10 scores.

The top low power scores came from Europe, with VE3NE coming in at number 3. GU4YOX claimed the world high low power score while providing a rare multiplier for many. SP4TKR topped a European field in the QRP category. However, WA4PGM broke up the European lock by placing 5th and also high U.S. QRP. Virginia's K7SV was the high U.S. low power scorer. Close races in California and Virginia (Multi-Op) show that a little extra effort does pay off.

RN6BN was the top CW country scorer with a record 89. Forty-two different CW contestants worked 70 or more countries. Again Europe dominated with VY2ZM slipping in

with 75, followed by KC1XX (73), D4B (72), and W2GD (71). W8JI led the Single Ops with 67 countries. W8JI also lead the QSO parade with 1406. North Americans dominate the high QSO scorers, with VY2ZM, W2GD, KC1XX, and AA1K making up the top 5 QSO places. D4B with 1255 was 6th, and a record 39 stations made 1000 or more QSOs. Still many complained about running out of stations to work on Sunday and spending hours calling CQ. A word to the wise: Get

## 2002 Corrections

OK1CZ operated as **OLØA** not **OL1A** in the CW section.

Jim, ON5UM, operated **OT2A** as Single Operator not Multi-Operator. **OT2A** placed second to OT2T (ON4UN) CW in Belgium.

The CW QRP log of Alex, **VA3TTT** (now VE3XAX) was left out of the listings. His score of 58,144 is the QRP winner from Ontario.

Brian, **VY2MGY/VE3**'s log was also left out of the CW section. His score of 40,205 places him second in Ontario QRP. Brian is now VE3MGY.

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on on Sunday and give out some QSOs and you will make a host of friends.

## SSB

VY2ZM was the high Single Op scorer, followed by D4B and EA8/OH2BYS. In Europe LY2FY edged out OR3T (ON4UN) by a scant 3000 points. They placed 4th and 5th, respectively. W4MYA recorded the U.S. high score and settled into 6th Place. DJ4PT had a solid 7th-place finish, followed by VE3PN in 8th as the Canada high. SY8A (SV8CS) and LY3UM rounded out the top 10. Bob, W4MYA, seems to have settled into the top US. score position. Bob led runner-up ND8DX by 86K. ND8DX's score is very good from the near Midwest. N0FW placed 4th high U.S. while placing first worldwide on low power. Another remarkable Midwest score. VE3KZ continued the Canadian tradition by topping the QRP entrants. WA3HQK broke through the European block to top the U.S. QRP entrants and place 4th. The combined score by D4B makes Alex the champion for this year's contests.

Gena traveled to Cyprus, and his 5B4/UA9MA effort was the top SSB Multi-Op. His score was also the highest overall on SSB. Gena says it's much easier from Cyprus than Siberia! The EI7M group made a fine score and placed second. K9NR operating from WB9Z's station came in third and was the U.S. Multi-Op winner, remarkable from the Midwest. XE1RCS made another strong effort for 4th place, just 700 points behind K9NR. Europeans dominate the rest of the top 10 Multi-Ops.

Only five stations made 1000 QSOs or more this time, but that will change when North America finally gets a full weekend without overwhelming QRN. K9NR and W4MYA led the QSO parade with 1217 and 1103 QSOs, respectively. 5B4/UA9MA topped the DX with 1100. Thirty-two contestants worked at least 50 countries, led by LY2FY at 63. VY2ZM beat the old North America record by 6 by working 58 countries. No other North American broke the 50 country plateau. Every year we have an unusual entry, and the W5DJW, Mississippi Multi-Op entry takes the cake this time. They made 241 QSOs in 49 states and provinces plus 6 countries while loading up a bridge! It's not every day that you work a bridge.

## Clubs

The Potomac Valley Radio Club (PVRC) made a terrific effort and placed first by 600K. The Bavarian Contest Club (BCC) also improved and moved into second place. The Frankford Radio Club (FRC) remained consistent with a solid third-place finish. The Yankee Clipper Contest Club (YCCC) and the Society of Midwest Contesters rounded out the top 5. Watch out for that new Contest Club Ontario, too!

The club scores are a "for fun" competition as intended by the founders of the CQ 160 Meter Contests. This does not stop clubs from making major efforts each year. At least three logs are required to make the club list. Why not get your gang out in 2004?

## PLAQUE WINNERS AND DONORS

### SINGLE OPERATOR CW

**WORLD BY W4ZV (DJ8WL Memorial):** Winner Alexander Teimurazov, D4B (4L5A op)  
**USA BY K4TEA:** Winner Charles T. Rauch Jr., W8JI (W4AN op)  
**CANADA BY K8FC:** Winner John Sluymmer, VE3EJ  
**ZONE 3 BY N5IA:** Winner Ken Keeler, N6RO  
**ZONE 4 BY K4WA:** Winner John W. Battin, K9DX  
**ZONE 5 BY N4PN:** Winner Jon Zaimes, AA1K  
**AFRICA BY WS9V:** Winner Manuel De Aguilar, EA8ZS  
**ASIA BY K4SX:** Winner Riki Kline, 4X3A (4X4NJ)  
**EUROPE BY K9DX:** Winner Krzysztof Sobon, SN7Q (SP7GIQ)  
**OCEANIA BY K9DX:** Winner Pacific Contest Club, KH7X (KH6ND op)  
**SOUTH AMERICA BY W4NU (W4UUH Memorial):** Winner Bill Priakos, PR0F (W5SJ)  
**JAPAN BY W4ZV (JA1XAF Memorial):** Winner Masaki Okano, JH4UYB  
**NORTH AMERICA BY CQ (N4IN Memorial):** Winner Dennis Clement, FM5GU

### SSB

**WORLD BY N4NX:** Winner Jeffery T. Briggs, VY2ZM (K1ZM)  
**USA BY K4JRB:** Winner Robert S. Morris, W4MYA  
**CANADA BY W0ETC:** Winner Peter Barron, VE3PN  
**ZONE 3 BY N4TMW:** Winner J. C. Stevens, KG7H  
**ZONE 4 BY N4XMX:** Winner Karl Brandt, ND8DX  
**ZONE 5 BY K4ODL:** Winner Steve Sussman, W3BGN  
**AFRICA BY WB4ZNH:** Winner Alexander Teimurazov, D4B (4L5A)  
**ASIA BY NT4TT/AH2BE:** Winner Alexander Timkin, RA9MJ  
**EUROPE BY WS9V:** Winner Rolandas Jokubauskas, LY2FY  
**OCEANIA BY D4B/4L5A:** No Entry.  
**SOUTH AMERICA BY D4B/4L5A:** Winner Edgar Ochoa, YV2IF  
**NORTH AMERICA BY CQ (K2EEK Memorial):** Winner Dennis Clement, FM5GU

### MULTI-OPERATOR CW

**WORLD BY N4RJ:** Winner Jeffrey T. Briggs, VY2ZMM (K1ZM)  
**USA BY W8UVZ and K8GG:** Winner Matthias Strelow, KC1XX  
**Zone 3 BY 4X4NJ:** Winner Jim Wilson, N7JW

### SSB

**WORLD BY SOUTHEASTERN DX CLUB:** Winner Gena Kolmakov, 5B4/UA9MA  
**USA BY WB9Z:** Winner Don Kerouac, K9NR  
**Zone 3 BY 4X4NJ:** Winner Jacks Peak Amateur Radio Association, N7GP

Remember that DXpeditions by club members count for the club score, and this has been leveraged well in the past.

## The 2004 Contests

For the 2004 e-mailed contests logs that are not fully in Cabrillo format will be rejected by the robot. However, a message telling you what needs to be changed or how to submit a conforming log will be sent in reply. The contest log checking has been slowed down by logs that are not fully Cabrillo. Please don't homebrew your log, but instead use one of the converter programs available to convert the old logging format to acceptable Cabrillo. Remember the contest name must be exact. Make sure the contest name is either **CQ-160-CW** or **CQ-160-SSB**. Please insert a claimed score in the Cabrillo summary so we can test the final score against the claimed score in case of difficulty. We will reinstate having the top 200 high-claimed scores on the CQ web page in 2004, so a value in the claimed score line is required for proper listing, too. Remember that power levels only apply to Single Operator categories. All Multi-Operators are considered high power, and if you use any assistance (packet or web spotting nets) then your log is Multi-Op.

Please leave duplicates in your Cabrillo

log. Somehow the rumor has gotten around that you must remove duplicates, but this is just a throwback to the old way of log checking where duplicates were often counted for points and thus the log-checkers removing them caused a penalty. There is no penalty for duplicates.

A word on uniques: There is nothing wrong with uniques, and the well-equipped stations will always have them. However, with the new log-checking programs, busted calls can now be pinpointed. Over 60% of so-called uniques turn out to be busted calls! The other problem is unverified uniques. The log-checking program spotlights logs with 3% or more uniques, which is twice the average for the CQ 160 Meter Contests. Over 7% uniques will bring your log under higher scrutiny. Thanks to Jim, AD1C, and Eddie, W6/G0AZT for their help in overcoming problem logs.

The rules for plaques and certificates are changed to meet conditions every so often. Only one plaque per section is awarded per entrant, so a runner-up may then get a plaque. No plaque is awarded for a score of less than 30K. Minimums for low power and QRP certificates are 5K for low power and 1K for QRP. Exceptions are made by CQ 160 Contest Committee decision (Japan low power, for instance). The CQ 160 Committee or the Contest Director can decide to

not award a certificate if sufficient 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. Have patience, as all plaques and certificates are handled by volunteers and hopefully we will get caught up by the 2004 contest.

The dates for the 2004 CQ WW 160 Meter Contests are set for CW, January 24-25, and SSB, February 28-29 (leap year). The contests run from 0000Z the first date to 2359Z the second date. Logs may be sub-

mitted in Cabrillo format via e-mail. This year logs go to two separate e-mail addresses: CW logs go to <cq160cw@kkn.net> and SSB logs go to <cq160ssb@kkn.net>. If you send both in March, please use two e-mails! Remember to put your call in the subject area of the e-mail. You may also submit electronic logs on diskette (3.5 inch, please, with a printed summary sheet, Cabrillo format requested) or hand-written logs. Both of these should be mailed to CQ 160 Meter Contest, 25 Newbridge Road, Hicksville, NY 11801 (please mark CW or SSB on the envelope). We must hold everyone to our required deadlines of February 28, 2004 for CW or March 31, 2004 for SSB. The exception is if both logs are submitted together, and then the date is March 31, 2004.

For complete rules for the CQ WW 160 Meter Contests see the November issue of CQ, or go to the CQ web page, <www.cq-amateur-radio.com>. Good luck in the 2004 contests!

73, Dave, K4JRB

### CW W/VE QRM

Surprised how many assumed a W as the first letter of the prefix. I was called WC6QV and WA6QV far too often... AC6QV. Ran into feedback in my computer so had to switch to hand logging... K7QBO. A better antenna helped my score this year. Thought I had Alaska but then he signed portable 7 so no 50th state yet... N2FY. Only computer I have is an old Apple IIe that uses 5-1/4 inch diskettes... W2LRO. Missed Wyoming and never did find KH6 or KL7. Heard a VK3 but he was mobbed... W5TVW. Do away with the meaningless RST and let's go with year of first license or something more meaningful... W8IM. Poor conditions in western Canada... VE6BF. Things have changed since the last time (1978) I enter the CQ 160 CW test... W0NFL. Close to my best QRP effort. New receiving antenna really helped... W4TMR/QRP. Worked VY2ZM on the first call with my 100 watts to my 80 meter dipole... WA1LAD. Biggest achievement was stringing an antenna on Saturday and having it work... KC7QY. Surprising that 90% of the time I could work the DX through a pile-up. (Maybe it was the Rhode Island QTH.—ed.)... K1DFT. Biggest thrill was working KH7X at the greyline... AC4G. Thanks to everyone who heard my QRP... N8A/QRP. Amazed to work the East Coast, VE, and ZF2NT. Band is very quiet here in rural Utah... KB7NZG. Everyone was polite, patient, and helpful... KA6UMQ. Worked Hawaii to complete my 160 WAS... K4DGJ. As always nearly everyone worked well together... WA9TZE.

I know it is not much of a score but I had a heckuva of a good time... AA0A. Europe came in waves with the best run coming at 0600Z the first night... AA1K. Great conditions blew away last year's score. Still have some work to do on the transmit antennas though... K0TV. Neighbors turned off their electric fence; thank you... K0UK. First time to operate this contest from Florida. Band was quiet each night... K1TO. Operated at the new QTH of NQ4I. Thanks, Rick... K4BAI. Limited operating due to family and 40 over 9 line noise... K4CNW. Paul's 4-square really works... K4JA (K4MA op). Things started well but fell flat, as no JA's were heard... K4VX (N9JF op). Band was good and the operators the best... K5GO (N5OE op). Great preparations for working 26 hours fell by the wayside when the PC got hit with a virus... K5PTC (N1LN op). DX activity was great but USA activity seemed down... K5ZD. Used a balloon-supported vertical over a dry lake bed 50 miles from the home QTH... K6SE. Propagation west on the sunrise greyline was poor... K7UIR. Enjoyed the contest but where were the islands, XE, and Central America?... K8AB. First time in the contest. Worked 27 states and 3 provinces. Will definitely put the contest on my calendar next year... KA6R.

Hot competition from W2GD and W1FJ at W1KM. This contest rocks... KC1XX. Working new countries mobile becomes very difficult without the DX window... KH6DX/W6. Really like the new hours. Great to get on Sunday afternoon... KZ1M. Did much better than expected with 80 watts... N1DC. First try with a 4-square but nobody hears me off the back. Next year need an omni antenna too... N2NT. At 2359 the band was crowded on Sunday. At 0045 on Monday the band was empty... VE3BNO. Conditions good both nights. The problem was the number of high-power stations calling CQ... VO1HP. Conditions better than expected. I do miss the window... W8CAR. Best DX in a long time. My European antenna did have a high line noise though... W9SE. Band was great. Too bad I had the flu... WA4AOS. Since I don't do CW I look for hired guns. If the guns don't learn to S&P and use packet for mults I will find new ones... WD5R. Big surprise was being called by XQ6ET... WA7LT.

### CW DX QRM CW

VERON never did get the time change. (The rules were on the CQ web page—ed.) I prefer the old times... PA8LOU. UT1YW wrote a long note but the only thing in English was "so QRP" at the end. Eugen did run QRP... K4JRB (for UT1YW). Using the old KH6CC rig that made 160 DXCC. Worked Field Day style from Laupahoe Point Beach Park... KH6B. This is my fifth CQ 160 CW, and although I enjoy the contest, I am limited by my poor antenna and low power... LU1EWL. I worked all that could hear me. Most had good ears... KH6ZM. Heard many more U.S. stations but with poor transmitting antenna they did not hear me... OH3WD. Not able to produce a Cabrillo log as I use the "Swisslog" which is a DOS program... HB9QA. With the "legal" German power of 75 watts it's very difficult to work across the Ocean... DJ5AA. Really like the new 48-hour format but we need the DX window back... VK6VZ. Easy to reach Europe from here but not North America... 4L1FX. Conditions were much better this year especially for North America. We lost our 26-meter-high ground plane three days after the contest... CT3FN. Balloon-supported 41 meter vertical was great on transmit... DJ0MDR. Worked two new ones in D4B and EY8MM. Still was hearing VY2ZM at 9:30 AM Sunday morning... DJ2MX. Thanks to Roger, DL5RBW, and his wife Gabi. Without their support this operation would not be possible... DL0XAX. Intermittent S9 noise made receiving a problem... DU9/N0NM.

Good opening to North America on Saturday morning did not reoccur on Sunday... EA5BY. D4B was very loud. Glad to see VU2BGS get on and work 16 stations... EY6MM. Slept through the Saturday morning opening to North America... F6CWA. Worked three new countries and two new states with 400 watts to a 25 meter wire in downtown Paris... F6GOX. It's the dry season in Martinique so I sent the wife to pray for rain. It poured—HI... FM5GU. First time on Top band in 39 years... G3SEK. Five watts to a K2 transceiver. Not record breaking, but exceeded expectations... G3YMC. My first CQ 160 CW. Hard to make it across the pond with low power even with a semi-rare call... GU4YOX. Better score this time as I did not go to sleep... GW3JXN. Happy to work nine states... IK4AUU. Conditions poor to USA so many did not hear my low power. VK6VZ was very loud and every JA was calling him... JE1SPY. The former times are more convenient for Europe... LX5A. More relaxing to operate with two operators. At 67, G3LZQ sure needs it... M2D. Enjoyed the contest. My first on 160. Did better than expected with my modest station... YU1WC. Please North America don't forget to listen to the south... YV5MBX. Our first serious effort in the CQ 160 CW. We will do better next time... Z36W. Thunderstorms the second day... ZC4DW. We got off to a great start on Saturday but conditions went downhill the second and we did not break our old record... ZL6QH.

### SSB W/VE QRM SSB

Got my TS-940 back in service in time... AA6EE. It was great to get out that far with a simple dipole in my first 160 contest... KB0ARZ. Too much QRM this

## TOP 10 SCORES

### SINGLE OPERATOR

#### USA CW

W8JL	641,576	W4MYA	320,862
AA1K	540,096	ND8DX	234,324
K4JA	481,740	W3BGN	219,978
W3BGN	446,576	N0FW	169,324
N2NT	446,538	N3HBX	160,310
W4ZV	398,460	W3TS	152,554
NO2R	361,990	K1VW	145,986
K9DX	327,318	K3NM	126,252
K4BAI	317,645	W3GH	107,120
WE3C	294,000	K4JA	103,411

#### USA SSB

### VE (TOP 5)

CW		SSB	
VE3EJ	543,998	VE3PN	272,049
VE3AT	317,475	VA5DX	198,250
VE3QAA	256,022	VE3ESE	108,072
VE3PN	252,588	VE3NE	106,731
VE3NE	245,847	VE6JY	84,111

### QRP (TOP 5)

CW		SSB	
SP4TKR	96,800	VE3KZ	41,160
S57IIO	86,940	HF70I	39,376
OK1FKD	75,118	OK1ES	14,147
YU1RA	72,471	WA3HQK	11,894
WA4PGM	70,977	OK1CZ	7,775

#### DX CW

D4B	1,513,105	VY2ZM	727,088
FM5GU	741,684	D4B	627,715
SN7Q	681,757	EA8/OH2BYS	565,222
W8JL	641,576	LY2FY	381,133
ZF2NT	604,395	OR3T	378,102
SO2R	585,758	W4MYA	320,862
HA8DU	559,800	DJ4PT	307,276
OZ7YY	555,758	VE3PN	272,049
LY7Z	549,500	SY8A	253,595
VE3EJ	543,998	LY3UM	244,732

#### DX SSB

### LOW POWER (TOP 5)

CW		SSB	
GU4YOX	299,896	N0FW	168,324
YU1EA	298,076	G4VGO	135,730
VE3NE	245,847	HA8BE	131,274
EA4ML	218,862	VE3ESE	108,072
YU1ZZ	207,328	VE3NE	106,731

### W/VE LOW POWER (TOP 3)

VE3CSK	207,298
VE3OSZ	171,864
K7SV	145,704

### MULTI-OPERATOR

CW(WW)		SSB(WW)	
VY2ZM	1,180,010	5B4/UA9MA	796,288
PJ2X	1,085,729	E17M	351,370
CT3FN	855,621	K9NR	295,862
9A1P	700,980	XE1RCS	295,070
KC1XX	700,050	SO2R	278,208
OM7M	665,680	LX9UN	257,790
W2GD	665,250	HG1S	251,454
W1FJ	624,980	YZ1W	234,360
RN6BN	613,180	UU7J	216,450
RW2F	579,168	IV3OWC	215,941



**RU3DX and UA3DPX multi-op in the CW contest using the call RU3DX.**

time. Rain and snow storms both . . . **N8XA/QR**. Being in the middle of the country (Kansas) I could hear many stations who couldn't hear me. Will have an amp for the next one . . . **W0NEB**. Great conditions for QRP . . . **K3TW**. My antenna failed Saturday evening and I finally fixed it in time for the last 5 minutes . . . **AF1T**. Getting FM5GU on the first call . . . **KA1BXB**. I like the new 48-hour format. This gives me three chances at the Midwest/East coast . . . **WA9TZE**. Excited to work all the stations with my antenna which was high in the center, but since I never got to put up poles, ends were almost on the ground . . . **W8KNO**. D4B called me . . . **N7ZT**. Next year we need to get out of the city and away from the noise . . . **N7WL**. Working all continents in less than 4 hours . . . **W4DR**. Stayed within the ARRL Bandplan for the whole contest. This was a big mistake . . . **W3TS**. Hard work on QRP but working Mexico and Canada made it worthwhile . . . **KK0G**. I had to install a filter to get rid of AM broadcast interference . . . **WB6FRM**. Low Windom was not very effective for transmit . . . **AJ6T**. High SWR on my L was caused by the wind blowing the vertical portion into my guy wires . . . **K0BJ**. Lots of loud signals from close in but needed a receiving antenna for those farther out . . . **K1KO**.

Please place me in 4-land this time . . . **K3KO** (*K3KO and K3000 are a YL/OM team—ed.*). Managed to get in 4 hours through the heavy QRN . . . **K4WI**. High noise level at Kitty Hawk, but the balloon worked fine. Next time maybe Maritime Mobile . . . **K4YFR**. Limited time to operate so I only called multipliers . . . **K5RX**. Make the contest 24 hours rather than 48 . . . **K5ZD**. Good conditions the second day gave me my highest score in ever on SSB . . . **K6TIM**. Lost the amp before the start of the contest. Working with 100 watts humbles you . . . **K7OX**. I still enjoy the CW section more . . . **K7RE**. Had some fun with my HF2V vertical which is not much on 160 . . . **K7ZO**. Tried low power this year with good results . . . **K9FO**. QRN was mind-boggling both nights . . . **K9NR**. Could not operate Saturday night as my shack is in the barn and we had a blizzard . . . **K9SG**. First time on Top band and in spite of the QRN I am hooked . . . **KC4PX**. This is the contest where the entrants are good and polite . . . **KE4SCY**. It always amazes me that you can follow one QSO in 10 minutes with a run of 10 more QSOs in just over a minute . . . **KH7H**. KO8HIO was a special event call . . . **K8ZT,op**. Stations in the south were

59+20 but both coasts were barely heard . . . **N0FP**. I made 90% of my 1000 QSO gold standard this year running 100 watts . . . **N0FW**. I switched from a dipole to a full-wave loop but still had receiving problems. See you next time from the hills of western Maine . . . **N1YIS**. New antenna still not good enough for hearing the West Coast . . . **N2VR**. The voice keyer hung up the computer and had to be abandoned, so I got hoarse . . . **N3HBX**. Low static on Sunday from 22 to 2400 allowed me to work three new mults including EA8 . . . **N3UM**. Set up a portable operation with a blimp-held 1/4-wave vertical. Will be back next year . . . **N7X**. QRN made this a real test of operator skill . . . **N8YEL**. A little casual DXing . . . **VE1JF**. Nice opening to Europe on Saturday . . . **VE3PN**. Would like to have heard and worked more DX but I am on a small lot . . . **VE7JKZ**.

## SSB DX QRM

My half-wave dipole went with the wind . . . **HA5FA**. Top band and this contest is my lifestyle since 1970 . . . **OK1TP** (also **OK1JDX**). Sorry no computer or internet here . . . **UA9ACJ**. Next year I will try to break my lowest score in the contest record . . . **WP4LNY**. Bad propagation this time . . . **CU2AF**. My first try at the CQ 160 SSB. QRN and QRM made it very hard to hold my frequency . . . **D4B**. Please return to the old schedule . . . **DK2OY**. Only one hour of operation . . . **DL6FBL**. Hard work with 100 watts . . . **DL9NDS**. We really enjoy this contest. Working ZL was a first for us . . . **E17M**. There should be a special restricted class for France as we only have 1810 to 1840. Too narrow for either CW or SSB . . . **F5PYJ**. Poorest conditions I have ever seen. I was more interested in watching TV . . . **FM5GU**. Full-size delta loop 300 feet up with the bottom at 60 feet held by a balloon . . . **G4VGO**. Used a balloon vertical for my first try at the CQ 160 SSB . . . **IC8POF**. A must contest . . . **IK8UND**. Very hard going on SSB . . . **M3C**. Worked D4B and VY2ZM with my QRP . . . **MU3EFP**. Very good signal from XE1RCS. Hope to QSO next year . . . **OE1TKW**. Not a serious operation this time. Just testing the antennas . . . **OK1RF**. Hope this log makes it . . . **OR3T** (**ON4UN op**). We came no where near our QSO or multiplier goals but enjoyed the hospitality of host 5B4AGN . . . **P3F** (**G3UEG op.**). It takes a mathematician to design the Cabrillo format . . . **S54A**. Finally got the vertical over salt water . . . **V31MD**. Best European opening in the past seven contests . . . **XE1RCS**. We had no cluster help either night so missed some DX and USA mults . . . **LX9UN**.

## Station Ops CW Multi-Op

**3Z0PRK**: SP9ADU, ANDY. **9A1A**: 9A5W, 9A5E, 9A6A, 9A7R, 9A9A **9A1P**: 9A5AEI, 9A6NDX, 9A6XX, S56A. **9A5Y**: 9A3LG, 9A5AGL, 9A3NM. **AA0A** & PACKET. **AA4V** & N4SF. **CT3FN**: HB9CRV, DK7YY. **DF0SAX**: DL8DYL, DL7FER, DL3DXX. **DF9ZP** & PACKET. **DH1NFL** & DL2MDZ. **DJ2YA** & PACKET. **DJ5IW** & PACKET. **DJ9MH** & PACKET. **DJ9NMH** & DJ9MH. **DK0IW**: DF9MV, DJ9WH, DL6KO, DL9CHR. **DK0NS**: DJ9MH, PACKET. **DK3GI** & PACKET. **DL0AO**: DJ3TF, DJ5RE, DJ6RN, DK1RP, DL3RAH, DL5PRO. **DL0MB**: DJ2UU, PACKET. **DL2MY**: DJ9MH, PACKET. **DL6LAU** & DJ6TK. **DL7YX** & DF1HF, DK5XG. **EA1WX** & EA1CS. **EA5BY** & EA5FID, EA5KW, EA5ERV, EA5XC. **EA6IB**: EA3AIR, EA6ACC. **E1GIZ** & PACKET. **ES5Q**: ES5MC, ES5RY, ES5TV, ES5QX. **FY5KE**: FY5FY, FH5RY. **HG1R**: HA1ZZ, HA1DRR, HA1XU, HA1ZN, HA1ZV. **HG1S**: HA1TJ, HA1DAI, HA1DAC, HA1DAI, HA1AG, HA3LN, HA1AV, HA1SN, HA1AR, HA1AH. **HG3DX**: HA3LN, HA3MY, HA3PW, HA3UU, HA4WU, HA5MY. **HG5A**: HA5IW, HA5FM, HA6WX, HA5HL, HA5OM, KISS TIBOR, HA5ZD, HA5UA, HA6GK, HA5DQ, HA5YI, HA5BGG. **IK2NCJ** & IK2JUB, IK2FIL, IZ2ABI. **IV3TDM** & IV3IHF, IV3YDD, IV3FHH. **JA0ZRY**: JA1GG0, JE5UMJ, JH5XDD, JA8DQK, JS3JSB, JL1GJE, JH1JVA. **JA3YBK**: JF4FUF, JH3PRR, JO3LDN. **JG2ZUP**: 7N4VPG, JJ0BRG, JA3-34192. **JY9QJ** & PACKET.

## CLUB SCORES

(Minimum of three entries required for listing.)

CLUB	SCORE	CLUB	SCORE
POTOMAC VALLEY RADIO CLUB	6,172,206	SOUTHERN CALIFORNIA CONTEST CLUB	509,670
BAVARIAN CONTEST CLUB	5,289,414	URE (SPAIN)	509,407
FRANKFORD RADIO CLUB	5,090,450	VRHNIKA CONTESTERS (S5)	481,938
YANKEE CLIPPER CONTEST CLUB	4,511,751	HUDSON VALLEY CONTEST DX CLUB	475,818
SOCIETY OF MIDWEST CONTESTERS	3,706,595	URAL CONTEST GROUP	474,801
CONTEST CLUB ONTARIO	3,453,936	NORTH COAST CONTESTERS	457,633
SLOVENIAN CONTEST CLUB	3,301,260	SOUTHWEST OHIO DX ASSN.	428,982
CONTEST CLUB FINLAND	2,869,246	LATVIAN CONTEST CLUB	402,446
RHEIN RHUR DX ASSN.	2,685,478	GRAND MESA CONTESTERS	402,253
SP DX CLUB	2,493,061	FOX CONTEST CLUB	379,621
ATCC (RUSSIAN FEDERATION)	2,487,095	CENTRAL ARIZONA DX ASSN.	336,800
HA DX CLUB (HUNGARY)	2,065,031	KANSAS CITY DX CLUB	332,635
SOUTHEASTERN DX CLUB	1,890,046	DARC	328,333
KTU RADIO CLUB (LY)	1,767,804	OKLAHOMA DX ASSN.	311,072
CDXC (ENGLAND)	1,519,130	C. TEXAS DX CONTEST CLUB	304,150
RUSSIAN CONTEST CLUB	1,476,402	LNDX (SPAIN)	233,684
MAD RIVER RADIO CLUB	1,309,112	WILAMET VALLEY DX CLUB	220,618
FLORIDA CONTEST GROUP	1,242,680	WESTERN WASHINGTON DX CLUB	178,779
UA2 CONTEST CLUB	1,075,428	TEXAS DX CONTEST CLUB	152,065
SKY CONTEST CLUB	878,486	NW FLORIDA DX GROUP	139,314
TENNESSEE CONTEST GROUP	871,904	MLDXCC (CALIFORNIA)	127,362
WWYC	825,132	NORTHERN ARIZONA DX ASSN.	100,500
CRIMEA CONTEST CLUB	727,376	UARL (UKRAINE)	98,317
UKRAINIAN CONTEST CLUB	714,544	NNY CONTEST CLUB	85,105
MARCONI CONTEST CLUB	603,787	CENTRAL SIBERIA DX ASSN.	80,519
NORTH TEXAS CONTEST CLUB	596,547	ROCHESTER DX ASSN.	71,437
CAROLINA DX ASSN.	570,496	WEST PARK RADIO OPS	47,622
MINNESOTA WIRELESS ASSN.	553,447	KENTUCKY CONTEST GROUP	38,928
		BARA (NEW YORK)	32,821



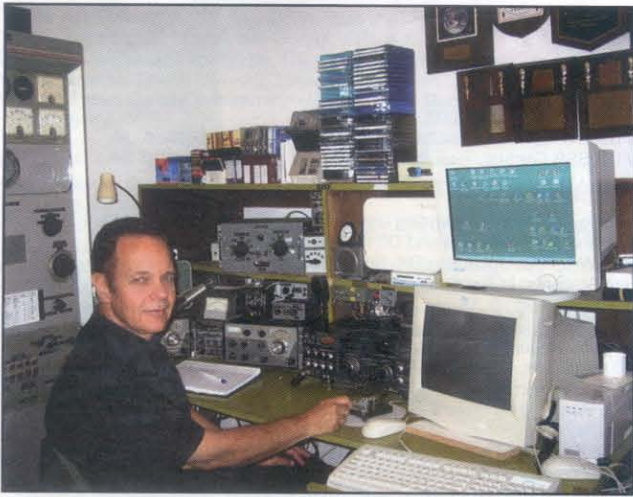












Riki, 4X4NJ, operated as 4X3A in the CW contest and came away with the Single Op, Asia plaque for his effort.

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UR5ZLK.ORP 432 11 0 8	W5DJW	CALIFORNIA 11,222 172 30 1	G6PZ G4IY M3C	ENGLAND 140,427 441 18 44 10,368 61 1 31 6,270 57 1 21
YUGOSLAVIA (SERBIA)		ARIZONA 103,224 672 55 13		FRANCE 63,699 246 8 43
Y21GD* 13,552 96 0 28	W6YRA	NEVADA 70,150 508 52 9	F5PYJ	GERMANY 162,096 501 12 54 102,080 406 9 46 93,995 375 8 47 74,160 359 4 44 71,750 323 6 44 54,234 259 2 44 24,805 128 2 39 1,410 22 1 14 710 18 1 9
YU1EA* 6,526 51 0 24	N7GP N7PWZ	OREGON 45,942 353 51 6	DJ5JW DL0MB DK2OY DL5RMH DH1NF DH1NH DJ9MH DK0DO DL0DRI	HUNGARY 251,424 654 11 61
OCEANIA		WASHINGTON 31,790 246 48 7	NK7U	IRELAND 351,370 701 30 52
CENTRAL KIRIBATI		OHIO 54,239 268 53 20	N7WA	ITALY 215,941 635 11 56
T31MY* 525 9 3 4	N7X N7WL	WEST VIRGINIA 28,950 249 45 5	W7WA	LATVIA 16,236 94 0 33
SOUTH AMERICA		ILLINOIS 295,862 1217 59 39	N8TR AF8C	LITHUANIA 125,161 516 2 45
BRAZIL		INDIANA 7,140 83 29 5	K80QL	LUXEMBOURG 257,790 772 10 55 137,032 471 9 47
PY3CEJ 3,864 24 6 15		WISCONSIN 16,335 158 43 2	K9NR KB9CRY	POLAND 278,208 745 10 62 98,226 351 7 47 62,883 240 2 49
PY3CAL 76 5 0 4		KANSAS 136,008 817 57 15	WA9IRV	RUSSIA 77,616 260 4 52
PY3PA 4 2 0 1		MINNESOTA 9,400 100 38 2	W0NO	SICILY 108,544 308 17 47
VENEZUELA		MISSOURI 18,286 211 40 1	N0FP	SPAIN 80,653 255 11 48 60,648 202 7 49 14,553 84 3 30
YV2IF 32,852 83 25 18		CANADA	K0LIR	SWITZERLAND 166,808 558 8 50
YV5LIX/ORP 205 7 0 5		NOVA SCOTIA 5,928 29 3 21	K1RV	UKRAINE 216,450 818 5 60 16,089 124 0 31
MULTI-OPERATOR NORTH AMERICA UNITED STATES MASSACHUSETTS		QUEBEC 52,120 278 39 1	WA1Z	YUGOSLAVIA (SERBIA) 234,360 629 12 58
W1TO 16,154 141 31 10		ONTARIO 201,853 581 55 16	K1RV	
K1RV 13,760 136 40 3		BELIZE 62,744 196 47 15	WA1Z	
NEW HAMPSHIRE		COSTA RICA 6,624 39 25 7	K1RV	
WA1Z 51,805 319 50 15		MEXICO 295,070 556 54 41	K1RV	
RHODE ISLAND		ASIA	K1RV	
K1DAM 135,000 555 56 34		CYPRUS 796,388 1100 12 62	K1RV	
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KD2I 163,936 649 59 35		CZECH REPUBLIC 114,393 457 7 44	K1RV	
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K3VOA 4,175 76 25 0		DE2VEL 19,800 105 1 35	K1RV	
4U1WB 420 21 10 0		EA6CA 30,052 302 38 6	K1RV	
DELAWARE		DL1C 11,004 83 0 28	K1RV	
AA1K 47,637 234 44 23			K1RV	
MARYLAND			K1RV	
K3DI 68,657 399 55 16			K1RV	
K3IXD 7,385 88 32 3			K1RV	
PENNSYLVANIA			K1RV	
WE3C 194,582 730 59 38			K1RV	
WY3T 66,882 382 54 17			K1RV	
W3FV 19,229 210 38 3			K1RV	
ALABAMA			K1RV	
N4ION 28,350 242 50 4			K1RV	
KENTUCKY			K1RV	
K4UZ 46,740 382 55 2			K1RV	
NORTH CAROLINA			K1RV	
K4YFR 13,040 130 32 8			K1RV	
SOUTH CAROLINA			K1RV	
AA4V 55,327 392 49 12			K1RV	
W4UNP 26,657 172 49 12			K1RV	
W4GFA 19,082 182 42 5			K1RV	
TENNESSEE			K1RV	
K4BP 27,700 253 46 4			K1RV	
N4VV 6,624 83 27 5			K1RV	
VIRGINIA			K1RV	
W4DR 69,840 198 43 37			K1RV	
W4HZ 57,680 468 48 8			K1RV	
W4NF 30,052 302 38 6			K1RV	
ARKANSAS			K1RV	
W5DR 83,008 593 54 10			K1RV	