

Big Fish

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Not to be overlooked are the CQ Worldwide DX Contests on each end of SS. A number of MRRCCers heading out to DX locales for the CQWW 'tests. Let's be sure to work them and generate more points for MRRCC!

Good luck in the upcoming contests and see you on the bands!

Go Mad River!!!

73,
Mike, K9NW

Treasurer's Report

Balance Forwarded	\$607.53
Income	
Dues collected this period	\$284.00
Funds collected for MiQP plaques	\$480.00
Expenses	
ARRL SS Low Power Plaques	(\$180.00)
Bank Expense - 200 checks	(\$57.56)
MRRCC Challenge Plaque Engraving	(\$13.25)
Club Badge Blanks - 10	(\$133.50)
Balance	\$1033.22

Please note that our account is simply holding the \$480 for the MiQP plaques until payment is due. MRRCC will also contribute an additional \$60 for the plaque we sponsor.

The first ten MRRCC badge blanks have been paid for. Please see Sean, K8KHZ for details. New name badges are \$15.00. Please make your check payable to the Mad River Radio Club.

Respectfully Submitted - Dennis, KT8X

MRRCC SCORES

Collected by Jim Stahl, K8MR

IOTA

K9NW 874 270 1,990,980

August NAQP CW

NU8Z 197 77 15,169
AF8A/4 19 10 190

August NAQP SSB

W8MJ 529 154 81,466
NU8Z 189 64 12,096
K8MR/4 96 49 4,703
K8GU 86 45 3,870

WAE CW

NU8Z 280 279 85 106,210

NCJ September CW Sprint

K9NW 359 48 17,232
K8CC 322 52 16,744
K8MR 312 48 14,976
K8NZ 285 46 13,110
K9TM 211 44 9,284
W8KW 214 40 8,560 W8UE opr
N8VW 180 35 6,300 QRP!
W8WTS 146 37 5,402
K5IID 143 34 4,862
AD8P 117 40 4,012
K8MM 114 34 3,876
KT8X 42 21 882

ARRL September VHF QSO Party

K8MR 211 101 28,254
W8RU 27 17 612
K8CC 613 182 140,686 +N5TU, K9TM

NCJ September SSB Sprint

KW8N 317 51 16,167
N8VW 164 42 6,888 QRP!
N8KR 141 40 5,640
K8MR 136 40 5,440
KT8X 109 33 3,597

CQ/RJ WW RTTY

ND5S 1032 169(States) 102 (DX) 1,208,746

Multiple SS Multi-Ops

By Dave Pruett, K8CC

The multi-op category in SS is an unusual beast. What makes it different is that it is a true multi-single. Only one transmitted signal is permitted (i.e., no separate multiplier station). On the other hand there are no "ten minute" or "six band changes per hour" rules. The contest sponsors leave it to us to obey the rules.

About two years ago, I discovered that some clubs have run multiple efforts from a single station during SS. While this at first seems like it would be against the rules, apparently it is not. Under the ARRL's "General Rules For All ARRL Contests", the following two rules can be found:

3.3. An operator may not use more than one call sign from any given location during the contest period.

3.5. A transmitter used to contact one or more stations may not be subsequently used under any other call during the contest period, except for family stations where more than one call has been issued, and then only if the second call sign is used by a different operator

These rules, interpreted together, allow for multiple multi-ops at the same station as long as: 1) Separate callsigns are used, 2) Separate rigs are used, and 3) No operator participates under more than one callsign.

I've contacted the Contest Department at ARRL HQ and they have confirmed this interpretation. A "rig" is defined as a transceiver and optional amplifier, so it's OK to share antennas but not equipment in the shack. Also, they apparently aren't hung up on whether the callsigns are actually licensed at the location (the "family" aspect).

The attraction to running multiple multi-ops at the same station lies in the SS rules and making maximum use of a station with good antennas. Since an SS multi-op station (or more specifically in this case, a callsign) is only allowed one transmitted signal at any given time, a station with the capability to operate multiple bands simultaneously can host multiple stations (i.e. callsigns). By staffing these stations with operators with little or no station themselves, the overall club score can be greatly increased.

We tried such an effort as an experiment at K8CC during the 2002 Phone SS. We recruited MRRCCers Don, WX3M and Jay, N8OS to run one station, and Mike, WD8S along with Marty, N8MG to run the other. The result was almost 500K towards the MRRCC club score, and was so much fun we wanted to share how

we did it in case others wanted to try.

All the HF antennas at K8CC are monobanders, so it was easy to set up a "patch bay" to allow any radio to "get to" any band. Each "station" had two radios/amplifiers, but with interlocks so only one could transmit at any given time. Each station had band-pass filters to provide isolation. The logging computers (running NA) were connected into a single loop network so that the packet connection via cable modem could be shared, but through the NA configuration setup each station could only see it's own QSOs.

Two stations, each with two rigs, meant that we had to manage band selection for a total of four rigs. To do this, we broke the contest into thirty one-hour periods. At the beginning of each hour, one team would get first pick of the bands, the other team would get second and third pick, then finally the first team would get the fourth pick. Which team picked first would alternate on the hour regardless of off time.

At the start of the contest, we flipped a coin for callsign and first band choice. The WX3M/N8OS team won the toss and so elected to use the K8CC callsign. The WD8S/N8MG team chose to use K8MAD (instead of NZ8O) and to begin the contest on 40M.

The big concern going into this experiment was whether both stations could "find rate" and keep busy despite band changing on the hour throughout the contest. This did not prove to be a problem. Each station usually could find one of their two bands on which to call CQ productively. The second radios were scanning their "other" band for QSOs, but this did get slow late at night when 20 and 15 were essentially dead.

The contest turned out to be an interesting battle between the two teams. MAD opened up an early lead, peaking at 74 QSOs by 03Z through capitalizing on 40M and going to 75M early while CC tended to stay on the higher bands. The pendulum started to swing in the 05Z hour when CC did 102 in their first 75M stint while MAD did 38 on 40M. MAD then let CC stay on 75M and make another 70 QSOs during the 06Z hour while MAD struggled to make 25. (Note: This shows how the two stations were unaware of how the other was doing, even though they were in the same room.) The MAD team would battle back from this 109 QSO swing, narrowing the gap to 26 by the sleep break. However, on Sunday the CC team got their groove on and slowly pulled away to finish 1592 x 80 to 1420 x 80 (claimed scores).

In the final results the K8CC team finished #10 nationally in the multi-op rankings while K8MAD finished #11. This certainly shows that two SS multi-ops can be hosted from one station and still be competitive. We hope to do it again in 2003.

Mad River Radio Club
2727 Harris Road
Ypsilanti, MI 48198



MRRC Fall Contest Expeditions

CQWW SSB

MRRCCers K8CC, K9TM, KT8X,
W8MJ plus NY1S will be m/2 from
VE1JF

AC8W and K8DD will be on 10M
from the **VB2C** zone 2 m/m

K1AR, W1MD, W0CG, WC4E,
N8BJQ, plus MRRCCer K8NZ will be

m/2 from **PJ2T**

SS CW

K9TM will be SOHP at **WP2Z**

CQWW CW

AC8W and K8DD will be m/s from

V47WW

MRRCCers K8MFO, K8ND, and
W8WTS, plus K4BAI, N8BJQ,
W0CG, and S50R will be m/2 from
PJ2T

ARRL 160

K8ND will be SOHP from **PJ2T**

Club Resources

The Mad River Radio Club is an ARRL affiliated club of amateur radio contesting enthusiasts. The club is centered near Findlay, OH and serves Ohio and the surrounding States. Membership is open to anyone.

The **Flash** is the official newsletter of MRRC and is published six times per year. Submission of material for publication is welcome. It may be sent to the editor at the postal or e-mail address shown at right. The **Flash** may be reprinted in whole or in part provided proper credit is given.

Club dues are \$12 per year, payable after the 1st of May each year with a grace period thru 31st of July each year. Members of the same family living at the same address may elect to receive a single Flash for one set of dues. Fulltime students are eligible for dues at half price. Dues are to be paid to the treasurer at the address shown at right. Please make checks payable to *Mad River Radio Club*.

The club roster appears annually in the October/November issue of the **Flash**.

The Mad River Net is held on Monday nights at 8:30 PM Eastern time on 3825 KHz.

The MRRC web site is <http://www.mrrc.net>.

Keep up with MRRC happenings by subscribing to the MRRC Internet Reflector. To join send an email to mrrc-request@contesting.com. The body of the message should include "subscribe".

K8MAD is the club callsign of the Mad River Radio Club.

President

Mike Tessmer K9NW
205 Ramblewood - Apt 2A
Fairfield, OH 45014
(513) 942-8991
k9nw@qthcom

Treasurer

Dennis Ward KT8X
3100 Platt Place N
Ypsilanti, MI 48197
(734) 572-5881
kt8x@prodigy.net

Flash Editor

Dave Pruett K8CC
2727 Harris Road
Ypsilanti, MI 48198
(734) 481-0755
k8cc@comcast.net

Score Collector

Jim Stahl
30499 Jackson Road
Chagrin Falls, OH 44022
216-831-6954
jimk8mr@aol.com

Sweepstakes Top Ten Scores For Michigan Through 2002

CW

CW Single Operator - High Power			
94 WA8ZDT	195000	1300	75
96 K8CC	188916	1211	78
93 WA8ZDT	182704	1202	76
91 K8CC	182490	1185	77
93 K8CC	181336	1193	76
90 K8CC	171300	1142	75
83 WA8YVR	159100	1075	74
88 K8CC	156436	1057	74
78 K8LX	153150	1021	75
83 K8CC	152144	1028	74

CW Single Operator - Low Power			
01 W8MJ	171680	1073	80
02 W8MJ	163214	1033	79
97 W8MJ	159738	1011	79
99 W8MJ	154440	990	78
98 W8MJ	151838	961	79
96 AA8AV	148824	954	78
94 AA8AV	142604	926	77
97 WA8RRR	139620	895	78
74 W8CQN	137492	929	74
91 KW8G	134288	872	77

CW Single Operator - QRP			
00 W8RU	102700	650	79
98 W8RU	95004	609	78
99 W8RU	91504	602	76
97 W8RU	88160	580	76
97 K8XXX (K8AQM)	79560	510	78
02 K8SB	77844	499	78
94 K8AQM	77400	516	75
01 K8SB	75924	513	74
96 WB8RUQ	71188	481	74
99 K8DD	63448	412	77

CW Single Operator - Unlimited			
99 AA8U	142200	900	79
02 W4FMS	122122	793	77
01 K8AQM	84800	530	80
00 AA8U	82560	516	80
00 ND5S	45760	277	79
99 ND5S	20440	140	73
00 AA8TC	16950	113	75
00 N8JM	8330	85	49

CW Multi Operator			
97 K8LX	197974	1253	79
01 K8CC	197920	1237	80
02 K8CC	192640	1204	80
00 K8CC	190240	1189	80
96 WA8ZDT	180024	1154	78
95 AA8U	172018	1117	77
94 AA8U	164934	1071	77
99 K8CC	164636	1042	79
87 K8AQM	162504	1098	74
01 K8JM	160370	1015	79

SSB

SSB Single Operator - High Power			
93 K8CC (WD8IJP)	294294	1911	77
96 K8CC (K9TM)	272064	1744	78
94 WA8ZDT	263802	1713	77
95 K8CC (WD8IJP)	252406	1639	77
94 K8CC (WD8IJP)	249942	1623	77
94 AA8U	248248	1612	77
96 AA8U	247572	1587	78
93 AA8U	239316	1554	77
91 K8MJZ	239008	1552	77
92 K8MJZ	236852	1538	77

SSB Single Operator - Low Power			
02 W8MJ	208640	1304	80
95 AA8AV	206052	1338	77
97 W8MJ	202082	1279	79
98 W8MJ	196394	1243	79
01 W8MJ	196000	1225	80
00 W8MJ	195040	1219	80
96 W8MJ	190832	1222	78
92 AA8AV	186494	1211	77
94 AA8AV	186032	1208	77
99 W8MJ	176486	1117	79

SSB Single Operator - QRP			
93 WB8G	100408	652	77
02 K8IR	63360	396	80
99 K8LJQ	40584	267	76
89 KB8DLH	43216	296	73
95 W8ERN	32850	219	75
98 K8LJQ	29680	212	70
89 W8VWY	28676	216	67
91 K0DD	27950	215	65
02 W8UE	27440	196	70
92 N8CQA	26980	190	71

SSB Single Operator - Unlimited			
99 AA8U	213300	1350	79
01 NU8Z	166720	1042	80
99 N8SNM	154596	991	78
00 N8SNM	150880	943	80
00 NU8Z	140640	879	80
01 N8SNM	146080	913	80
99 ND5S	67466	427	79
02 KT8X	52456	332	79
00 WX3M	42976	272	79
99 WX3M	34958	227	77

SSB Multi Operator			
98 K8CC	272708	1726	79
95 AA8U	250250	1625	77
96 NU8Z	246460	1580	78
93 K8MJZ	246092	1598	77
02 N8KR	240960	1506	80
02 K8CC	240160	1501	80
01 N8KR	240000	1500	80
96 KG8CW	233064	1494	78
95 KG8EF	231616	1504	77
01 K8CC	228800	1430	80

Sweepstakes Top Ten Scores For Ohio Through 2002

CW

CW Single Operator - High Power			
95 K8AZ (K8NZ)	193732	1258	77
02 K9NW	183040	1144	80
93 KW8N (WD8IXE)	180424	1187	76
92 KW8N (WD8IXE)	180334	1171	77
92 WR3G	179256	1164	77
93 KQ8M	178752	1176	76
00 K9NW	177440	1109	80
01 K9NW	175040	1094	80
91 WR3G	173866	1129	77
91 KW8N (WD8IXE)	172172	1118	77

CW Single Operator - Low Power			
97 K8BL	162740	1030	79
99 K9TM	162740	1030	79
00 K9TM	158400	990	80
98 K9TM	157248	1008	78
95 K8BL	154308	1002	77
92 K8CX	153846	999	77
02 K8BL	153740	961	80
94 K8BL	150766	979	77
94 K8CX	149842	973	77
93 K8BL	149264	982	76

CW Single Operator - QRP			
94 K8MFO	100168	659	76
00 N8ET	95004	609	78
99 WA8RJF	84300	562	75
95 WA8RJF	83232	578	72
92 WA8RJF	82950	553	75
97 WA8RJF	79952	526	76
00 WA8RJF	77000	500	77
99 N8BC (K8BL)	76284	489	78
94 WA8RJF	75460	539	70
90 K8BL	75000	500	75

CW Single Operator - Unlimited			
02 N8BJQ	148000	925	80
99 W0CG	144924	929	78
02 W8AV	107598	681	79
00 K4LT	31840	199	80
99 K8MFO	12482	79	79
99 K8BL	11848	77	77
02 AF8C	8586	81	53
02 N8OH	1440	30	24

CW Multi Operator			
01 W8AV	162266	1027	79
83 WB8JBM	161616	1092	74
99 W8AV	159738	1011	79
99 KU8E	155220	995	78
82 WB8JBM	154944	1076	72
81 WB8JBM	154322	1057	73
84 WB8JBM	150088	1028	73
02 W8FT	149942	949	79
95 WD8LLD	148918	967	77
00 W8EDU	147520	922	80

SSB

SSB Single Operator - High Power			
97 K8DX	298778	1891	79
93 KW8N (NZ4K)	270424	1756	77
00 K8DX	252000	1575	80
91 K8AZ (K8NZ)	238700	1550	77
99 K8DX	237790	1505	79
00 K8ND	237440	1484	80
95 NZ8O	235620	1530	77
00 N8VW	233920	1462	80
01 K8DX	226572	1434	79
92 NZ8O	225148	1462	77

SSB Single Operator - Low Power			
94 N8JEC	189266	1229	77
99 KU8E	184228	1166	79
96 K8JZ	175656	1126	78
02 W8DD	175200	1095	80
01 W8DD	174400	1090	80
00 ND8DX	170080	1063	80
01 K8BL	162720	1017	80
02 K8BL	159840	999	80
02 ND8DX	158400	990	80
95 K8BL	155848	1012	77

SSB Single Operator - QRP			
02 K9TM	133120	832	80
02 N8IE	67680	423	80
01 N8WL	65832	422	78
93 WA8RJF	64824	438	74
92 W8ILC	64064	416	77
92 WA8RJF	61500	410	75
01 N8IE	60514	383	79
98 WA8RJF	53246	337	79
00 N8IE	52480	328	80
90 AA4YZ	50850	339	75

SSB Single Operator - Unlimited			
00 N8BJQ	114240	714	80
00 K8BL	109600	686	80
02 N8BJQ	105600	660	80
01 N8TR	101600	635	80
00 N8TR	93600	585	80
01 N8OH	88800	555	80
02 N8OH	70080	488	80
00 WT8C	57986	367	79
01 K3GP	57120	357	80
99 N8ET	56406	357	79

SSB Multi Operator			
95 KW8N	332640	2160	77
96 KW8N	325728	2088	78
94 KW8N	316008	2052	77
92 KW8N	304766	1979	77
91 KW8N	294140	1910	77
95 WD9INF	288750	1875	77
98 KW8N	287718	1821	79
89 KW8N	260106	1689	77
85 WB8JBM	255744	1728	74
02 N8HR	252000	1575	80