



THE COUNTY LINE

ROADRUNNER



Published Monthly by the Mobile Amateur Radio Awards Club, Inc.

Volume XXXXII

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Number 9

FROM THE DESK OF THE PRESIDENT

Bill K2NJ



“Damn, It’s Hot.”

Summer is upon us, and this week is the Somerset County 4H fair. Gail is a poultry club leader, so we get to bake in a hot tent for three days later this week. How I wish I was back up in Maine where it was in the 30’s at night...

Last month I received the resignation of Dave KF4KW as our News Letter Editor. Dave has done a great job for us, and we all owe him a big thanks when we hear him on the air. He has been wearing several hats and they finally squeezed him too hard – something had to fall out. Just happens the others are paying him, so guess what he dropped... duhh?

I thank you Dave, you have done a lot for the club. Please don’t remain a stranger (well, no I wont go there)..

I tapped Roger to see if he would be interested – and sure enough, he jumped to attention and is willing to pick up where Dave left off. September will be his first issue, and I am sure we will all give him all the support he needs. Speaking of support, if you are out and about and run into a funny situation – jot it down and submit it to the RR. Any ideas on how to do something – especially if it has a different twist to it, write. We are always looking for some new ideas, or fresh stuff for the RR.

The elections are again behind us, and I am grateful to be in this seat again. I wish to welcome the new Vice President – Bob, N4CD and our new Great Lakes Director – Randy, N8ELQ to the team, along with returning Directors John, WB9STT.

Not much on our plate now, Just the 4H fair, and then a family reunion in Vermont the following week. And I though it has been a busy July with the trip to Maine and VE9/VY2. We ran every county in Maine and NH, and a hint to you guys on CW...

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MINUTES OF THE AUGUST 14, 2002 MEETING

Norm Ellison , W2LSH

The Meeting of the MARAC Board of Directors was called to order at 0812PM EST (0112Z) by Vice President Bob Voss, (N4CD)

The Officers present were:

Vice President	Bob Voss -N4CD
Secretary	Norm Ellison — W2LSH
Treasurer	Jim Grandinetti - KZ2P
Great Lakes Director	Randy Davis - N8ELQ
Northeast Director	Stanley Heinsma - VE1BES
South Central Director	Joyce Boothe - WB9NUL
Pacific Director	Robert t. Devine - KC6AWX

The Members present were: (KK7X) Dennis - (K8GPC) Hugh - (W3CF) Chuck - (KC4UG) Kenny - (N4MYZ) Alice - (AA1NZ) Tom - (W2NWL) Roger

Upon a motion by Jim (KZ2P) and seconded by Joyce (WB9NUL) the minutes of June 12, 2002 meeting were approved. Roll call indicated 6 in favor, none opposed.

Upon a motion by Norm (W2LSH) and seconded by Bob (KC6AWX) the Treasurer’s reports of June 30 and July 31, 2002 were accepted. Roll call indicated 5 in favor, 1 abstention and none opposed.

OLD BUSINESS

A: None at this time

NEW BUSINESS

A: Norm (W2LSH) made a motion, seconded by Stan (VE1BES) that MARAC give \$300 to the 3M Mini for the hospitality room. Roll call indicated all in favor, none opposed. The motion passed.

B: Norm (W2LSH) made a motion, seconded by Randy (N8ELQ), that Roger (W2NWL) to be appointed as the Editor for the RoadRunner. Roger (W2NWL) was asked if he would accept the appointment by Bob (N4CD). Roger answered in the affirmative. Six votes were cast to confirm Roger, none opposed.

C: Bob (KC6AWX) reported that everything was

(Continued on Page 2)

(President Continued from page 1)

I tried to check into the net from EVERY one of them. I was only successful in a handful. Most of the time I gave my QNF (I wont do QRL because there is always a question – is it a mobile about to run, or a ragchewer/Dxer/Contester gonna call CQ).... And NOTHING... most of the time.

Once, I was told QRX - QRL, and waited 15 minutes hearing nobody at all – duhh? Asked QNF and then nada... QRZed, and nobody at all... A few counties I worked only N4CD or KC4UG in them. I usually go there after I run on 20 SSB and quickly check 40... If NCS announces me going there, I am usually more successful – working the both mode guys... but not every time can ya get the attention of the SSB NCS, especially in close.

Enuf bitching for once. Still playing with six meters, not as much DX this year as last, but then – it's still early in the F2 season is about to begin (yea, pray to the F2 Gods)... I am burning aluminum incense, and about to get a big 6 tattoo on my shoulder... Just for grins, guess what number school bus I drive... yep, there are 80-some busses in the fleet... and I have number SIX. Guess its destiny. So far, I have 350 counties on the band – cant wait to get the 500th one and apply for the award for that band. Mostly they exchange grid squares there (yep, I collect them also) and it throws them for a loop when you ask their county... Why do you want that? – You must be new to the hobby I am told... Yea, only 40 years now I usually answer.

From what I have heard the National convention went off without a hitch. My question is who is using my new radio, and when can I expect you to tire of it and return it to the real owner... hi Bob, you have done a great job from all reports. I told you that everything would go good if you followed the advice of your mentors – ya did good.

It is not too early to start to plan for South Bend. The question I have is are you going to have a tour of the fishing equipment manufacturing facilities there? They make some good rods/reels with the South Bend name on it...

73' Hope you all have a great summer, looking forward to seeing the kiddies on the bus in about three weeks.

**The County Line Roadrunner
Published Monthly by**

The Mobile Amateur Radio Awards Club

Opinions expressed in articles are those of the author and may not reflect those of the **Mobile Amateur Radio Awards Club**. Articles appearing in the **Roadrunner** may be copied provided credit is given to the author and the **Roadrunner**. The **Roadrunner** is published monthly and articles from members are encouraged and welcomed. Articles from other sources are welcome also, provided the source allows re-publication and credit is given to the original author and the source. The Editor reserves the right to edit all articles for size and content. We will not publish any articles that are sexist, racial, or otherwise in poor taste. Direct submission of articles are encouraged by hard copy, e-mail or diskette to The Editor, Roger Purdy 1-B Potomac Lane, Whiting, NJ 08759 or W2NWL@MARAC.org. The deadline for submission of articles or changes is the 25th of the month for publication in the next issue of The Roadrunner.

Minutes (Continued)

completed on the National Convention, with exception of a refund from the Holiday Inn and a couple of outstanding checks. The final accounting will be sent to Jim (KZ2P). There will be a \$1200.00 short fall but this was planned and expected. The BOD thanked Bob for the great job he did.

D: Bob (KC6AWX), made a motion, seconded by Randy (N8ELQ), that Joyce (WB9NUL) and Barry(W9UCW) be approved to host The MARAC National Convention "TEXAS 2004" in Weslaco, TX. Roll call indicated all in favor, none opposed. The motion carried.

E: Norm (W2LSH), made a motion, seconded by Bob (KC6AWX), that Randy (N8ELQ) be appointed MARAC Election Coordinator. The motion passed, 5 in favor, 1 abstention, none opposed.

F: Dennis (KK7X) requested permission to purchase a copy of Dreamweaver MX Software. The price is \$180.00. With an academic discount the price will be about \$80.00 less. Jim (KZ2P) said that he could get the discount through his daughter Christine (NN2Q). Joyce (WB9NUL) made a motion, seconded by Jim (KZ2P), that Jim purchase the program and send it to Dennis. Roll call indicated all in favor, none opposed. The motion carried.

There being no further business to transact, Bob (KC6AWX) made a motion, seconded by Jim (KZ2P), that we adjourn. Roll call indicated all in favor, none opposed. The motion carried. The meeting was closed 9:10 EDST

OPEN MEETING Nothing at this time.

Respectfully Submitted,
Norm Ellison W2LSH
Secretary, MARAC

Springtime in Montana

KD9ZP – Awards Manager

My favorite time in Montana is just after Labor Day. My one and only brother, Bob, lives in Gardiner, MT, the north entrance to Yellowstone. Bob's home is on the Yellowstone River overlooking the mountains on all sides and the north entrance to Yellowstone, the Teddy Roosevelt Arch.

Bob moved from Wisconsin in the last year of collage and married a girl from Ennis, MT, several mountain ranges to the West. In September, the elk start to herd up as the Bulls gather all of the Cows and wander the streets. It is common to see a herd of elk grazing on the Motel lawn in the morning. And in the evening, when Dottie and I return from our trek thru the Park, we sit on my brother's deck and view the mountains, listen to the river, and sip a 'COOL SODA' on the rocks and prepare a cookout which usually includes a steak and all of the trimmings.

However, this column is not about my brother and for that matter not about Fall in Montana. It is about a County Hunter who must have gotten tired of 'cold' feet, long nights and short days in Alaska decided to visit the 'warmer' 'lower 48' and run all of Montana in the Springtime.

KLIV had a goal to run all 56 counties in Montana. Here are his stats:

Start Day:	April 10, 2002
Last Day:	April 17, 2002
Days Run:	7
Longest Day:	14 Hours – 40 minutes
Most miles in one day:	556
Warmest Day:	82 degrees
Coldest Day:	25 Degrees
Total Miles:	3,198
Total Contacts:	6,457
Total Counties – SSB:	67
Total Counties – CW:	61

As you can see, he must have run some other counties in Washington, North Dakota and Idaho.

Kent told me:

"I was going to run more counties, but on the last morning I broke my radio. It fell off the bed and landed on the VFO knob and the VFO got stuck on 14336.5 and the knob would not turn."

"I ended up having to use my Russian straight key because my keyer would pick up stray rf and start sending on its own. that slowed down my contact rate."

However, driving around all of the mountains in Montana running counties was the 'easy' part. Suddenly, the last counties began to come in, **the most for any one person in that short of a time frame in my tenure as Awards Manager. MY work was just beginning!**

Kent's goal was to 'break' 100 last counties, he was at 96!

Number 100 came from KC4UG for Sheridan, MT, his last for USA-CW, followed by number 101 (LC-2) also from KC4UG for Musselshell, MT, his last for BINGO IV.

Number 125 came from K2JG (also a LC-2) for Powell, MT, his last for 3rd time. (Jim never tells anyone what he needs – Kent 'stumbled' into it!)

Number 150 came from AD8W for Fallon, MT his last for BINGO.

The last one I recorded as of 8/13/02 was number 157 from W5VDW for Park, MT, his last for the 4th time. More are still coming in.

Somehow, Kent managed to give me all 7 of my last in Montana. I 'dug' into my wallet for \$2 and gave him number 135 for Madison, MT my last for BINGO.

HERE ARE HIS LAST COUNTY STATS

Total Last Counties From

4/10/02 thru 4/17/02: 62

LC-1's: 60 - LC-2's: 2

Total MT Last Counties (Out of 56): 25

Ravalli, MT	8	Garfield, MT	1
Mineral, MT	5	Gallatin, MT	1
Madison, MT	5	Hill, MT	1
Treasure, MT	4	Fallon, MT	1
Carter, MT	4	Lincoln, MT	1
Granite, MT	3	Liberty, MT	1
Lewis and Clark, MT	3	Lincoln, MT	1
Carbon, MT	3	Boundary, ID	1
Sanders, MT	3		
Musselshell, MT	3		
Wheatland, MT	2		
Meager, MT	2		
Broadwater, MT	2		
Park, MT	2		
Powell, MT	2		
Sanders, MT	1		
Sheridan, MT	1		
Golden Valley, MT	1		

**Mobile Amateur Radio Awards Club
2002 National Convention
"FlipAlbum Photo CD"**

The Visalia 2002 Photo CD is complete and is shipping. The project has exceeded expectation with over 800 photos past and present. Included on the CD are photos from the Visalia convention. Thank you to KC6AWX, N0ZA, KY0E and AE5EA for their photo contributions.

The CD was created using FlipAlbum Pro 4.2 and when inserted into your computers CD Drive will start automatically loading the bookshelf giving you 3 books to choose from. The Photos from Visalia, Historic Group Photos from past MARAC conventions and a collection of photos submitted to <http://countyhunter.com> over the past 5 years. To see samples of how the FlipAlbum works you may visit <http://www.flipviewer.com> and click on the samples.

Also included on the CD are various shareware and freeware programs. Included are Adobe Acrobat Reader 5.0, Kwikwin Lite by KJ4EJ (<http://kwiklog.com>), WinZip 8.1, DXAtlas, mIRC 6.03 (To allow you to best use Internet Relay Chat for the new MARAC Chat Room).

You get all of this for ONLY \$19.98 which includes shipping to the US and Canada (Foreign orders please contact me by email for shipping costs).

You may order on-line at <http://marac.org/visalia2002.htm> - You may also pay on-line using PayPal or send a check to the address on the confirmation screen.

You may also order directly from the CD Manufacturer at <http://store.mixon.com/marac2002> - The price will show \$18.95 which when included with the shipping cost via US Postal Service will come to \$19.98. By ordering from the Manufacturer you will also be able to Pay with Visa, MasterCard or American Express.

We look forward to receiving your order and would like to thank everyone who participated in this project with a special

All profit from the sale of this CD goes directly to support the efforts of <http://countyhunter.com> and <http://countyhunter.net> You may also order directly from KK7X by sending a check for \$19.98 to Dennis Hall, 4518 W. Haney Road, Rathdrum, Idaho 83858. Please include your Name, Call, shipping address and email.

**Mobile Amateur Radio Awards
Club
Treasurer's Report
July 31, 2002**

Funds Balance 6/30/02	\$26,789.76
Income:	
Awards	\$422.50
Dues	\$927.00
Interest	<u>\$17.73</u>
	\$1,367.23
Expenses:	
Gene Olig - expenses	\$279.74
Fairmont Awards - awards	\$998.50
Print Rite, Inc - newsletter	<u>\$575.73</u>
	\$1,853.97
	<u>(\$486.74)</u>
Account Balances:	
Money Market Account	\$24,121.24
Checking Account	<u>\$2,181.78</u>
	\$26,303.02

August 31, 2002

Funds Balance 7/31/02	\$26,303.02
Income:	
Awards	\$559.00
Dues	\$943.00
Interest	<u>\$19.95</u>
	\$1,521.95
Expenses:	
Gene Olig - expenses	\$347.13
William Bell - 3M convention	\$300.00
Fairmont Awards - awards	\$182.00
Stafford Engraving - awards	\$73.00
Print Rite, Inc - newsletter	<u>\$537.70</u>
	\$1,439.83
	+ <u>\$82.12</u>
Account Balances:	
Money Market Account	\$24,141.19
Checking Account	<u>\$2,243.95</u>
	\$26,385.14

Note:

The following monies are not included in the above:

Awards Chairman's Funds:	\$1,200.00
Convention Chairman's Funds:	\$4,500.00

THOUGHTS ABOUT BEING MOBILE PART II

Bill Herbert - WA2ZYM

Well, we are back in Yellowstone for the summer. I thought I would add a little to my last article and hopefully say something that might be of use to someone.

Operating mobile up here is something of a challenge. First of all, almost all the time, the truck is parked among some really huge trees in really dense forest. I would guess that the average Lodgepole Pine here is about 80 feet high. Even setting up the satellite dish to get a TV signal is a chore. Also the weather can be a challenge. Our last snow up here so far this year was the 5 inches we had on June 15th. Obviously, operating mobile in a stationary vehicle at 15 degrees is not conducive to comfort. The weather also has a very strong effect on the band. A good bit of the time I figure I have a good day if the net control station is better than a 22 signal. This, by the way, is also true of the Park Service radios. A call for a repeat from the com center is very common. Between the mineral content of the ground, the trees and the mountains radio operation can be iffy at best and sometimes is almost impossible.

An example of propagation here occurred while I was in the process of putting this article together. I was parked at Yellowstone Lake, worked several stations and had 59 copy on K2JG and WG6X who were acting as NCS. I received a call from NPS com center which required me to move about 10 miles. At that point, near Canyon Village, I lost the net completely. Needless to say I had to pull the plug.

If you are planning a trip up to Yellowstone be aware of the fact that two meter coverage is just not possible from most of the park, and for a good bit of the area cell phone coverage is spotty. In some areas, it just isn't possible. The nearest repeaters are in Cody and Jackson, WY and in Livingston and Bozeman, MT all of which are from 55 to 100 miles from the park. There is a cell phone antenna on Mt. Washburn in the park (got hit by lightning on June 1 and hasn't worked since) and the next nearest is in Jackson, Wyoming which is 120 miles away from Canyon Village.

I mentioned last time that a good GROUNDED antenna is essential for mobile work. In conditions such as we find up here it is imperative to spend a lot of time to get the antenna just right.

No amplifier, no DSP unit, no speech processor or any of the other bells and whistles on the rig do any good under these conditions without a properly tuned, properly grounded antenna.

I drive a GMC diesel pickup. The steps I have taken to help the mobile set up are as follows. First, I bonded everything – the truck bed to the frame, the cab to the frame, the cab to the truck bed, the engine to the frame, the hood to the body, the tailgate to the bed, etc. You get the idea. Bond any metal part to something. Anything that flexes and moves at all can generate interference and effect performance.

Once everything is bonded the next step is grounding. My antenna is the old tried and true Hustler system. I am sure others work as well and some probably much better. As for me, I have used the Hustler for the last 40 years (wow, I don't feel that old!) and it has served me well so I see no reason to change. Unless you are one who can't resist the newest gadget on the market, if it works keep it. Anyway, the antenna is mounted to the bed rail of the truck, just in back of the cab. With the 22 inch mast this puts the resonator for 20 meters just above the roof. Although it is slightly out of the perfect alignment I would like, the roof does act as a rather inefficient, better than nothing, ground plane for the antenna. The ground on the antenna is connected directly to the truck chassis thru the shortest possible length of ½ wide aluminum braid. I know copper is a better conductor, but it also oxidizes and loses conductivity thru the connections after a while (the green color on a copper connection is an oxide which does NOT conduct electricity, just ask any model railroader.) The mount is additionally grounded to the chassis with ½ inch braid. The mounting bolts are not a reliable ground! Doing this prevents fluctuations in performance due to vibration in the mount while moving.

The next step I took seems to be one that has fallen out of use in the past few years, but it is one I find helpful. I stopped at an auto parts dealer and bought a graphite impregnated ground strap. I think it cost me about six dollars. Most auto parts places stock them – usually they call them static straps. This type of strap is rubber, about 1 ½ inches wide and has a grommet at one end for mounting to a vehicle chassis rail so it hangs and touches the road. This insures a good ground connection between the vehicle and the road.

(Continued on page 6)

Mobile Thoughts (*Continued*)

At this point it is time to tune the antenna. While different people have other ideas on this, I leave it until the end for this reason. When you tune the antenna or trim the coax first any change you make – ground wires, bonding, etc. can have an effect on the tuning. After I have everything else done, I tune the resonator. I use an MFJ259B analyzer. There are other things that will do the job but I like this one because it gives me a lot of information. I get SWR, forward and reflected power, coax performance and a bunch of other info all from one unit. For instance, I can see the effect of changing the length of coax right on the meter. I once put on a six meter hamstick and tried to tune it. I found that no amount of adjustment of the antenna would do any good. I still had an SWR of about 2.8-1. I took, an inch at a time, about 3 inches off the coax. Each inch showed an improvement on the meter until I finally hit 1.4-1. Discretion being the better part of valor I left well enough alone. By the way, you can do this without soldering the connector. It does not give a perfect reading on the meter to just stick the coax in the connector but it will tell you if you are heading in the right direction. When you feel you might be close to what you want, solder it and try it. With luck you will only have to do it once.

These steps are time consuming. Do you need to go to this extreme? Probably not if you operate only occasionally from the mobile setup or if you are in an area where there is never much problem sending and receiving. However, if you want to operate mobile most of the time and intend to travel a lot then the time spent in getting an efficient setup is worth it.

In addition to these steps, which are intended to improve both transmission and reception, I also did a couple of things to help reception. First and foremost, the rig itself is grounded. Not to the instrument panel or the supports for it, but by running ½ inch braid from the ground post directly thru the firewall to the frame. Even though a diesel is less noisy than a gas engine vehicle this is still a big help.

For me at least, the greatest help in years is the Clear Speech speaker. From my point of view this is absolutely the best thing to happen to mobile reception ever. It is hard to believe the difference this unit can make. It also is a big help in forestalling complaints about “that awful noise” from passengers.

The last thing with respect to reception is to make use of all of your rigs filters, AGC, noise blanker, etc. that you can. They are not decorations, use them.

Because I operate mobile all the time, I have found that taking the time to do these things has been well worth the effort. If you have a gas engine car or truck, there are other steps you can take, such as capacitors to ground on the coil and spark plugs, but on this subject I am no expert. I bow to those who are and wish everyone great success with their mobile installations.

If you need any of the counties in and around Yellowstone drop me an e-mail at wa2zym@Yahoo.com. If at all possible I will try to set something up for you. See you all on the air.

Silent Key

MARAC is saddened to report the passing of Lauren (Larry) Moiser, W9SWM, R1299, Larry was very active and gave many of you new counties in the 70's, 80's and early 90's. He passed away after a long battle with cancer. in early July, 2002.
Reported by Ron W8ILC.

From The Editors Desk

In this my first issue of the Roadrunner I thought I would take some space (since I had nothing to fill it with anyway) to first thank the B.O.D. for the opportunity to continue to serve MARAC and it's members in another capacity, that of Editor of the club's newsletter.

The Roadrunner is, of course your newsletter and as such its pages would be all but empty without INPUT from its members. To that end I would like to invite articles and information of interest to County Hunting from everyone. A fix for a mobile problem, a review of a new product, some experiences from a trip and anything else that is related to County Hunting fact rather than fiction being the key. Although a good yarn is always of interest and welcome, it could be delayed in publication by an article describing a new product, experience or happening during a road trip. All submission will be printed in time depending on space and also may be separated over two issues if necessary. Without submission from its members the newsletter will end up filled with plagiarized information from the ARRL letter. We don't want that, DO WE?

As you already know, the Roadrunner is distributed in Print, Electronic Mail and is posted on the Webb site.

I will be looking for you INPUT. Thanks.

*Major Awards Issued For The Month Of
August*

KD9ZP - Awards Manager

N8STF	8/10/02 5 Star	13
W0JAR	8/12/02 Big Rig	545 Counties
KC6AWX	8/19/02 BINGO II	20
4Z5FL	8/30/02 DX Mobile	270 Countries
K0ARS	8/21/02 Last County Count 100	173
KB6UF	8/12/02 Last County Count 200	73
KG5UZ	8/12/02 Last County Count 200	74
N6GLI	8/12/02 Last County Count 25	387
KC3X	8/30/02 Last County Count 250	47
AA9JJ	8/26/02 Last County Count 300	35
N7AKT	8/30/02 Last County Count 475	19
KC4UG	8/30/02 Last County Count 525	13
KJ5PQ	8/12/02 Last County Count 600	7
AC4PY	8/30/02 Last County Count 75	185
W6PXE	8/30/02 Last County Count 75	186
AE3Z	8/30/02 Last County Count 75	187
N4CD	8/21/02 Last County Count 850	3
W3CR	8/8/02 Worked all Counties - 5th Time	58

MARAC AWARDS

P.O. Box 2295

Fond du Lac, WI 54936-2295

MARAC Webb Addresses

MARAC – Home Page

www.marac.org

Application - Last County

www.marac.org/lastcounty

Application - Worked All Counties

www.marac.org/wkallcounties.htm

Application - Membership

www.marac.org/membership

Elections

www.marac.org/elections

MARAC Database

www.marac.org/database

3M October 17th, 18th and 19th.

Registration: \$9.00 Single, \$12.00 Double.

Cost of Dinner \$18.50/person

All prize donations will be appreciated.

Send Registration and cost of dinner to:

William E. Bell KM4W
99 Smoke Rise Circle
Manchester, TN 37355

New Members

R-3039 N8QP David E Mitchell 2267 Autumn Ridge
St. Joseph, MI 49085 1-269-428-5155
demitchell@attglobal.net

R-3040 N0RX Erik W Peterson 498 David City, NE
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R-3044 K6PDQ Harry S Rouse 27 Calaveras Ave
Santa Barbara, CA 93117-1333 Santa Barbara
1-805-685-1785 k6pdq@arrl.net

MARAC 2nd Quarter Ballot
Votes accepted from
September 1 – November 30th
You are voting for Net Controls who ran the net
and Mobiles that ran in the 2nd Quarter
Which are the months of
June, July and August
1 Vote per Quarter – PLEASE

Call Sign* _____ Election Key* _____

Please put **EITHER** your call sign or Election Key
Code above.

Annual Award For: 1st Choice 2nd Choice

Best Net Control - SSB: _____

Best Net Control - CW: _____

Best Mobile - SSB: _____

Best Mobile - CW: _____

Best Team(Enter Call1/Call2): _____

Mail To: Randy Davis, N8ELO,
Elections Coordinator
1894 Sheick Road
Monroe, MI 48162

The County Line Roadrunner
MARAC Secretary
21140 Golden Pond Road
Long Beach, MS 38560-9012

“A Road Runner Is A Very Fast Bird”

Board of Directors

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Southeast Director: Percy Ford, KA1JPR, PO Box 1450 Lady Lake, FL 32158-1450, 352-750-0251 KA1JPR@MARAC.org

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