



THE COUNTY LINE ROADRUNNER

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Riding the County Lion Dave – KE3VV

This has been a strange winter. The County Lion swears (a lot) that it is not winter at all and that the fur in his winter mane is too thick for the warm weather. The Big Green Dragon is also complaining because of the extra build-up of excess winter flame juice. But that is not what is keeping the County Lion up at night (other than slight dyspepsia from the occasional overindulgence in pepperoni and sausage pizza).

The County Lion frets about the image of County Hunters. He always reads the latest issue of CQ magazine, and one of his favorite features is “Riley’s Ramblings,” authored by former FCC amateur radio enforcement lawyer Riley Hollingsworth (K4ZDH). This month’s column (entitled “Everybody Lighten Up!”) features a theme that is not new to Riley or his discussions at the Dayton Hamfestivazoola. He notes that “some frequencies are like bad neighborhoods. Stay away.” I quickly looked through article until I could reassure myself that none of the frequencies used by County Hunters was on the list and county hunters were not the focus of his discussion of groups that harbor members who behave badly on the air. He mentioned folks who don’t like contesters or DXpeditions or QRP stations and those QR-Loud stations that run (at least) 1500 watts into clouds of aluminum in order to talk to someone 100 miles away, He didn’t mention one of the most flagrant on-air abuses perpetrated by some members of the county hunting community, so I am going to talk about it here. Keep in mind that there is no official MARAC position on this because MARAC has no nets and doesn’t “police” net activities, but I am a long-time county hunter and mobile op, and I value the good name of our hobby and the 99% who use the amateur radio bands to practice CHing responsibly and with consideration for others. (More)

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One of the advantages of having collected multiple transceivers in the ham shack is the ability to monitor a number of SSB and CW frequencies all at once. I have noticed over the years (and seems like a lot more lately) the unfortunate practice of frequency hoarding by a few county hunters who are too busy or whatever to actually run a net and occupy a frequency but who jump in and run the occasional mobile station on an ad hoc basis. I have discussed why that is not a net and why there is no such animal as a “net in open session,” but this is a corollary – and it creates a black eye for county hunting. I am talking about those situations when there is no net control, no one asking if there is a mobile that is ready to put out a county, and no QSO among county hunters in progress to occupy the frequency. When there are a lot of mobiles running, this is not usually a problem, but when there are only one or two mobiles, it often becomes arises, and when it does, the County Lion roars with irritation and the Big Green Dragon has been known to leave scorch marks.

For example, on those days when there is only one or two mobiles running on 40-meter SSB and the frequency is used for running mobiles for about 10-20 minutes every hour, and there is no net control, the silence and static between runs is not “use” of the frequency by anyone or anything other than ionized particles. If someone monitors the frequency and (after hearing nothing for 5 minutes asks, “is the frequency in use?”, I often hear the following response: “Yes, thanks for asking,” and THEN that station often asks, “Is there a mobile ready to run?” - letting everyone know that it is a county hunter who is claiming that the frequency is occupied by more than silence. Then, when there is no response, the frequency goes silent for five or ten or twenty minutes. No net, no NCS, no QSO, no activity... just some fixed station county hunter and his imaginary friends.

A rather harsh description of what the county hunter monitoring the frequency does by claiming that the frequency is occupied is that he (or she) is simply lying. The frequency is not actually being used, so saying that it is being used constitutes a falsehood – an untruth – a misleading description of reality. But that is not what should bother us as federally licensed radio operators.

Monitoring a frequency and chasing off potential users or otherwise “reserving” the frequency for use by the occasional mobile putting out a county is a direct violation of FCC rules Section 97.101 {b} of the regulations governing amateur radio says, “Each station licensee and each control operator must cooperate in selecting transmitting channels and in making the most effective use of the amateur service frequencies. No frequency will be assigned for the exclusive use of any station.” Claiming that a frequency is occupied when it is not is the same as claiming that it is reserved or assigned. No frequency, not 14.336 or 7.188 or 10.122.5 or 7056.5 or any of the other frequencies used to run counties, has been assigned to county hunting activity. In addition, when we knowingly transmit on a frequency that is being used by someone else, we are intentionally interfering, which is also a clear violation of the FCC regs.. And an “eye for an eye” doesn’t apply to radio any more than it does to “road rage.”

Even if no county hunter is ever cited by the FCC for frequency-hoarding, it is not a practice that goes unnoticed in the ham radio community. It is only a few county hunters, but they make us all look like selfish, self-righteous frequency pigs who don’t know the rules, make up pour own rules to fit some self-serving view of the world, or just don’t care.

There is a simple solution to those who want to run the occasional mobile. Monitor the frequency (like 7.188) where a mobile will usually call in, and if it is being used by another station or group of hams, then find a nearby frequency and use that. We do it all the time on CW – the “best practice” is

to announce “QSY Up” or “QSY down.” All modern radios have a wonderful invention that we didn’t always have when I started out in amateur radio – a VFO. We need to use it. A momentary interruption of the frequency to announce a QSY (plus posting the frequency on Internet spots) works just fine. And it actually lets those other hams using the frequency that we are trying to be considerate. So for those who would rather sit on a frequency and fight over who can use it or whether is actually occupied by an “invisible” county hunting net, we might want to add the description “lazy.”

The County Lion is growling that this all sounds a bit harsh. I guess he is right. But it is probably the single most often-heard complaint about county hunting from non-county hunters. We may have our internal disagreements about how nets should be run and how award rules should be applied, but the phony claim that a frequency is “in use” by a county hunting net when that frequency has been silent and idle for more than a few minutes (and usually much longer) is the source of most bad PR. It makes us look like those guys on 75 meters who got their ham licenses from vending machines in truck stop bathrooms. By the way, the Big Green Dragon is in full agreement and thinks the County Lion is just a big pussycat, which (of course) he is. I will not relate here what the Big Green Dragon would like to do when he hears a county hunter come on a frequency where no mobile has run (and no NCS calling for mobiles) for more than 5 or 10 minutes and claims that the “frequency is in use.” It does involve bad breath – and the occasional tongue of flame.

Speaking of tongues of flame, I am reminded that Joyce (WB9NUL) has been tasked by the County Lion to help line up some future venues for the annual MARAC convention. Please contact Joyce if you would like to discuss what it takes and how much assistance you can get from other MARAC members who have “been there and done that.” It is the best way I know to keep the cost of traveling to the annual convention to an absolute minimum. It also guarantees that those “close in” counties that are so hard to log will be run many times on multiple modes and bands. So gather a group of your close-by CHing friends and put your part of the world on display.

Until next month, the County Lion, the Dragon, and I hereby return this portion of the spectrum back to its “normal” amateur use. Dave - KE3VV.



Dateline CW

Ed, KN4Y

Look bravely up into the sky, and be content with knowing that a county line can be run using CW, Digital and Sideband.

I turn onto the drive to the radio shack; it has been going on three weeks since I have been in the shack. I have been laid up with a vitamin deficiency described halfway between paranoia and the butt flu. I go into the shack and check the thermostat, I notice Gator coming down the driveway stopping at the recycled railroad tie. He comes in the door, “Happy New Year Dude, are you are feeling back to par., you are not contagious are you” “No, but I am still not at full strength, but headed in the right direction with the help of the vitamin B-12 shots.” Gator goes out the door to the mailbox, which is stuffed full. He brings the pile of mail into the shack and dumps it unceremoniously on the desk.

I take two large brown envelopes from the pile, “I would guess these are State QSO party certificates. They are, this certificate is for third place out of state, CW, Low power in the 2012 Colorado QSO Party. This certificate is for scoring points from Florida in the Pennsylvania QSO Party.” Gator takes both certificates and shakes his head, “I will file both certificates for you. I see you missed the Stew Perry Top Band Contest.” “I sure did, but did you see the CW county hunters that worked the contest, awesome.”

Gator sits at the computer, “I saw a TV program last night about people who hoard stuff, I mean everything. It reminded me of this shack, you need to get on the show. You got a mobile list from 1982 still on the desk..” I ignore Gator; there is a fine distinction between hoarding and archiving. I point two fingers at his nose, “Remember I have seen your storage sheds that still contain the actual county line signs you got years ago.” “They be my log.”

Gator laughs and picks up a brochure off the floor, “What is this ARRL Spectrum Defense Matters from the ARRL?” “It has to do with the growing telecommunications community; I have not read it yet.” Gator sips his coffee, “By the way Dude how did you score in The ARRL VHF Contest?” I hand Gator my 6-meter log and he turns to the computer and does something. He starts laughing, “You made 21 contacts but you did get a Bingo. Did you have the volume turned up?” “Remember Gator, I was on 6-meters operating CW which is not the prevalent mode as you notice reading the 3830 reflector. The 6-meter band is unpredictable a major reason the band is not run by the CH mobiles, but never say never. For instance, the Georgia QSO party has added 6-meters to their suggested frequencies and Delaware QSO party CW 6-meter frequency is 50.950 MHz..” “For real?” “Yes, for real.”

Gator’s cell phone activates, “Sorry Dude got to run the Zalkin 8-Head Rotary Bottle Capper has stopped and there is a big flu tonic order to get out.” Like a cheetah he is gone leaving only a dust cloud just below the treed squirrels. The printer starts, I work a mobile on 30-meters, the sprinter stops. It is a printout of the mobiles heard during January on the county hunter’s CW frequencies, I read: K0ARS, K2HVN, K2RP, K4YT, K7RE, K7TM, K8ZZ, K9JWV, KB0BA, KB4RRU, KB6UF, KC7YE, N0FG, N0KV, N2CU, N7IV, N9JF, N9JT, N9QS, ND9M, NN9K, W3DQT, W4SIG, W5QP, W7FEN, WA2CNJ, and WB2ABD.

I need a nap, but first I check the February contest calendar and I notice the State QSO parties return and the CW county hunters are happy again. Starting off the month there are three QSO parties to keep you in the shack for the weekend. The Vermont, Minnesota, and Delaware QSO parties, this is a total of 104 counties for grabs. The next weekend is the Louisiana and New Hampshire QSO parties with 74 counties up for grabs. Next take a break from QSO parties and participate in the ARRL CW DX Contest. This is a major world-wide contest. Rounding out the month there is the Mississippi and North Carolina QSO parties, a total of 182 counties up for grabs. Need some counties on ten meters check out the 10-10 Phone QSO party. Need a call prefix, search the QSO parties. I heard a rumor N5NA, ND5W, and W3DYA will be mobile in the LaQP. Nap time is awaiting.



New Members

<u>MARAC Number</u>	<u>Callsign</u>	<u>Name</u>
R4525	AC0HW	Richard DiGiacomo
R4526	KA7RRA	Dave Archer
R4527	KD7GLY	Joanna Jones
R4528	K7RE	Brian Kassel



**Nominations
for CW and SSB
County Hunter of the Year**

Nominations are now in order for the 2013 CW and SSB County Hunter of the Year Awards. Nominations must be received by your District Director not later than March 31ST and should contain a brief list of reasons for the nomination. Your District Director will select one nominee (one for CW and one for SSB) from those received and forward that selection, with the reasons for the selection, to the Election Coordinator no later than April 15th. Prior winners (per mode) are not eligible to receive this award a second time. Please read the requirements for County Hunter of the Year and support those members who work to make MARAC the vibrant organization that it is.

MARAC 2013 ELECTIONS ANNOUNCEMENT
Second Request

Nominations are open for the positions of Northeast Director and Pacific Director - both 3 year terms. Nominations will be open for 60 days. They are open from January 5th through March 10th. Any current member of MARAC is eligible to run for office. For the District Director positions you must live in a State within that District – please refer to the MARAC website.

If you are willing to serve MARAC in an elected position, please send your nomination to KR@GCI.NET or via regular mail, which must be received on my end by March 10th.

MARAC VOTING INFORMATION

Remember, if you are a new member or are REJOINING following a lapse in membership, you are **NOT** eligible to submit nominations or vote in an election until the first day of the month following receipt of initial payment of dues and valid membership application to the Secretary of MARAC.

Those individuals maintaining uninterrupted membership status are not restricted from nominating or voting in the current month.

If you are unsure of your membership status, please go to the MARAC web site at <http://marac.org> click on Member Database and enter your call in Call Lookup to determine your MARAC Expiration Date.

Kent Reinke
MARAC Election Coordinator
P.O Box 215
Valdez, AK 99686-0215



History Happens

Gary, K4EXT

History Happens continues to look at MARAC beginnings. The information presented comes primarily from old meeting minutes and newsletters.

A regular meeting of MARAC was held at 8:00pm on June 6th, 1970 ... at the QTH of Skip, WA0WOB. Members present included Skip, WA0WOB ... Jack, W0SJE ... Joe, WA0PJX ... Ella, W0AYL ... Cleo, WA0SHE ... Clyde, W0YLN ... and Myron, WA0KQQ.

The treasurer's report showed a balance of \$584.64 on hand.

MARAC's first two awards were announced ... (1) The Worked All States Mobile Award for working the 48 contiguous states (plus silver and gold stars for Hawaii/Alaska) ... and (2) The Associate Award for working other MARAC members (required 100 total points, whereby charter members were worth 3 points, regular members were worth 2 points, and associate members were worth 1 point).

The upcoming Independent County Hunters convention in Knoxville was discussed, with MARAC scheduling its July meeting at the ICH get-together.

The new MARAC newsletter was discussed ... it was decided that the first newsletter issue would be mailed along with membership cards soon after the meeting.

Clyde Stottlemire, W0YLN was MARAC's first newsletter editor, and he retained that club position for three years. Clyde was MARAC Charter Member #C6 and USA-CA #39 (1970). The W0YLN picture below is from 1970 and is courtesy of Mike, NF0N.



Digital Happenings #6

(January 2013)

By WONAC ("Matt")

Sharon and I just got back from a very successful trip running digital counties in S/W Kansas. We both feel good about the results of the trip, but as usual, I planned to put out too many county lines on Saturday. As a result, we were on the road about 14 hours that day. We have both vowed that we won't do that in the future because we are no longer "spring chickens"! We are going to have to leave 12 hour + days to the "young bucks". Later in this article I give a detailed analysis of the digital results, but here are a few highlights.

Over the 3 ½ days we put out 27 total counties on 3 digital modes each. 24 of the counties were on county lines. We made a total of about 2000 contacts (counting each of us as separate contacts) of which over 800 were digital. The remaining 1200 were mostly SSB on 14.336 with a few scattered CW. On a typical county line run we would make 25 to 30+ QSOs on SSB (200 to 240 loggable contacts) followed by 8 to 10 QSOs each on PSK-63, RTTY, and MFSK-16 (96 to 120 loggable contacts). To do all this usually took about 1 hour, but the time passed quickly as we were very busy. Obviously, the longer time spent on county lines limits the number of counties that can be put out in a reasonable day. Never-the-less, both Sharon and I were very happy with the productivity of this trip as more and more new folk seem to be joining the fun.

This leads into the main topic for this article:

HOW TO OPERATE AS A MOBILE OM/YL TEAM USING DIGITAL MODES

Last month I covered the basics of "putting out" counties using digital modes while operating mobile (one operator). To put out digital counties as a mobile OM/YL team you need to do most of the same things. I will try not to repeat myself here, but concentrate on the added things you need to do as a team. You may wish to review last month's article before going on.

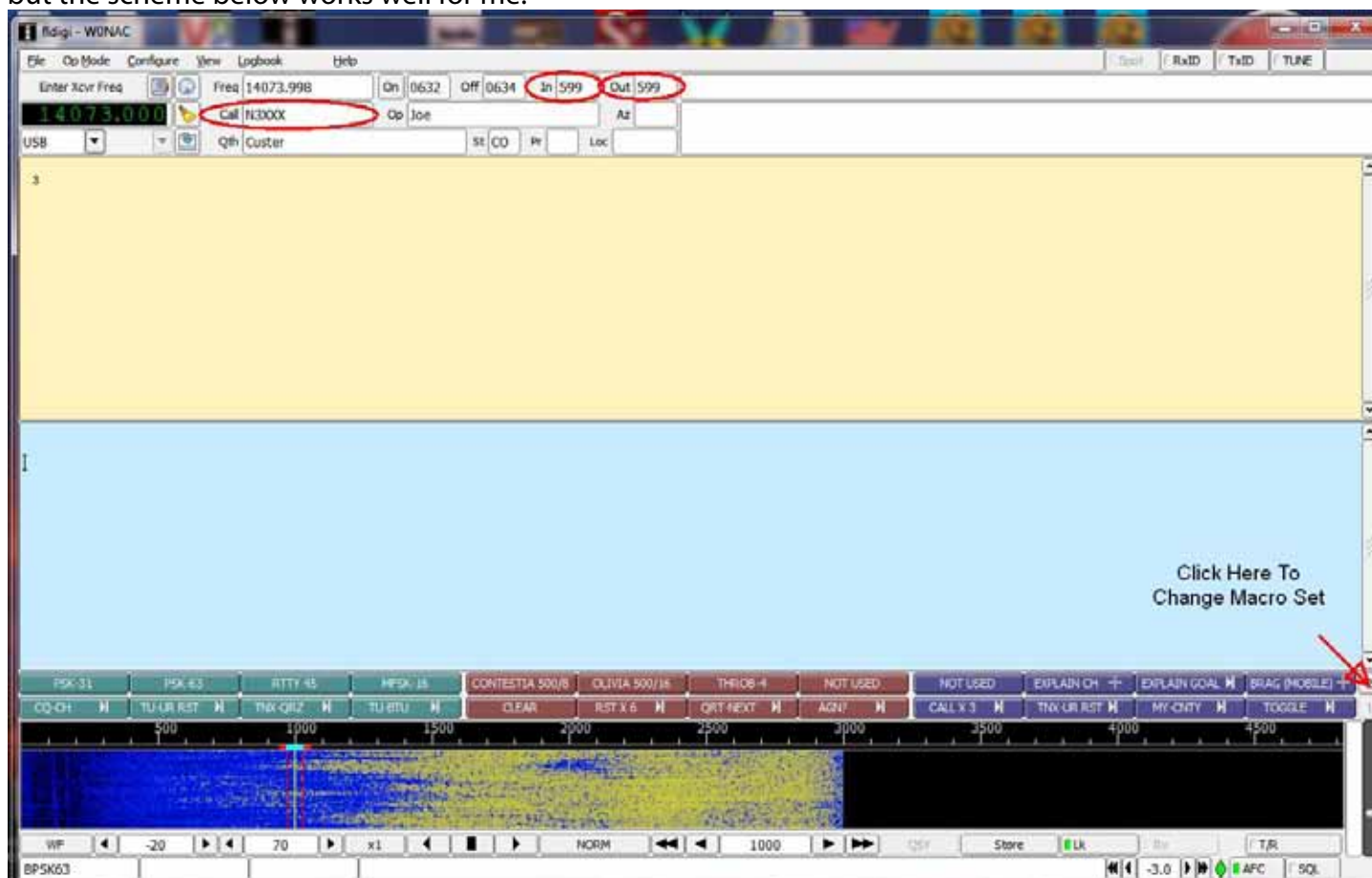
Before you leave on your mobile trip, you will also need to check out your macros and be ready to use them. You should plan on spotting yourself in most cases since there is no formal net as yet for helping digital mobiles. This will require wide-area internet coverage of some kind (some now use their smart phones for this purpose). You can also arrange in advance for a fixed station to follow your progress and spot you.

When putting out counties digitally, I recommend that you do so using at least 3 or 4 different modes on one band. 14074.0 KHz (+/- interference) true frequency is usually a good choice since it is above the 14070-14072 KHz range mostly used by casual PSK operators and is below the 14075 - 14077 KHz range used by JT-65 operators. The four modes we have used the most are PSK-63, RTTY, MFSK-16, and THROB-4 (in that order) all transmitted on 14074.0 KHz. Remember, to transmit on this true frequency, set your radio dial to 14.073.0 KHz and the offset on your waterfall to +1000 Hz. If you wish to keep things a bit more simple (and also save time), you can limit the modes you use to just one (PSK-63).

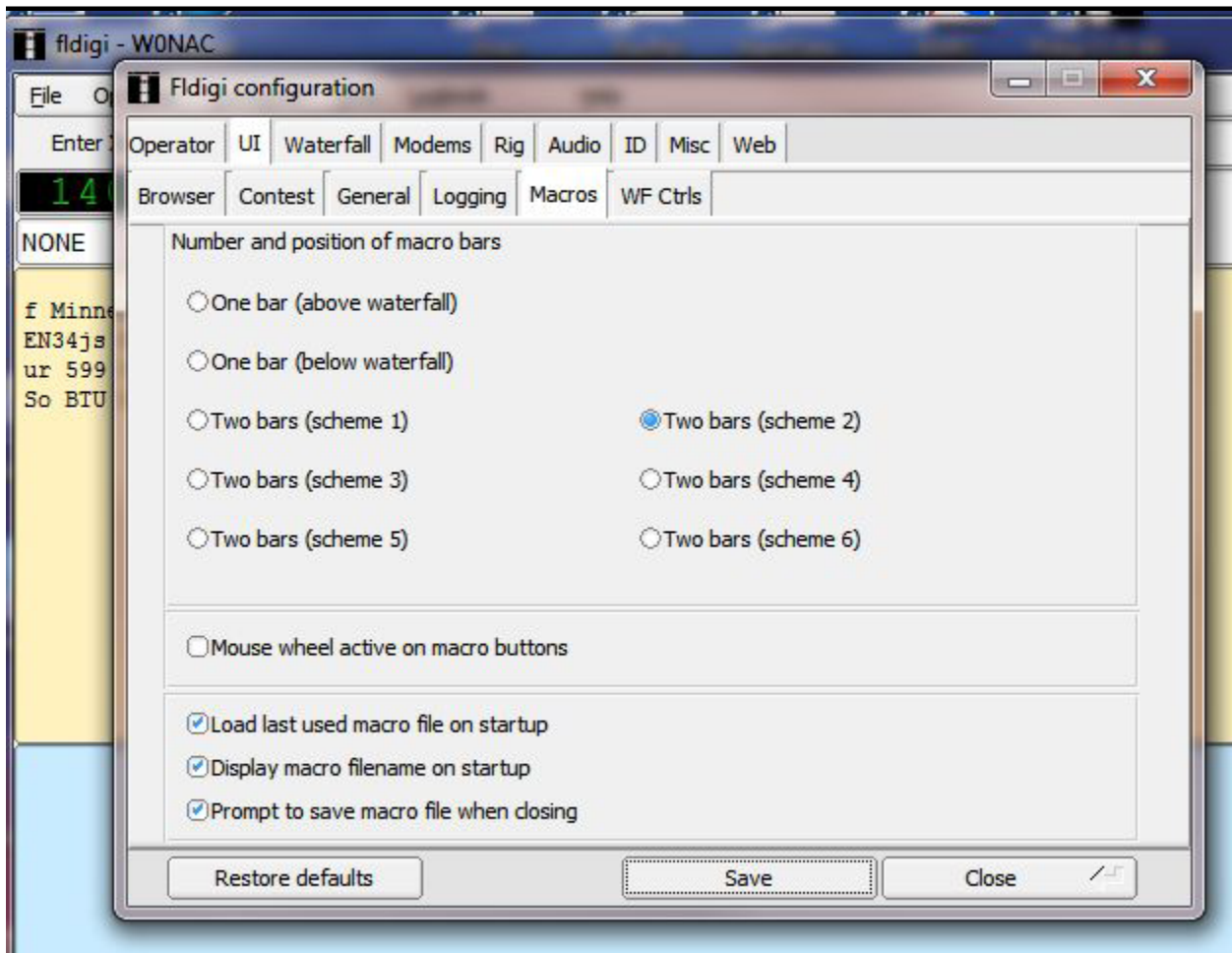
RE-VISITING MACROS, ESPECIALLY FOR OM/YL TEAM USE

First, let me state that it is almost impossible to put out digital counties without using macros. They are the KEY to success! Also, all the tips and examples that follow are based on use of Fldigi software. The setup file for Fldigi ("fldigi-3.21.66 setup") can be downloaded at: <http://www.w1hkj.com/download.html>. Most other digital software programs (MixW, Digipan, etc.) support the use of macros similar to Fldigi. The main differences are in the lists of available "Tags" and the way the user sees and interacts with the preset macro buttons. I still recommend Fldigi software mainly because of the immense number of modes that it supports and because it is free. It also has excellent free support through a Yahoo support group at (<http://groups.yahoo.com/group/win-fldigi/join>). Other software has somewhat better macro features and better logging capability, but each of you will need to make your own choice. Because of space and time limitations, I can only provide help related to Fldigi. Also, for those of you who may already be using an earlier version of Fldigi, be sure and download/install the latest version (3.21.66) as it has many important changes.

Now, on to macro setup and use...Fldigi has 4 sets of 12 macros (total of 48) that you can configure and run. The macro buttons can be displayed in many different locations on the Fldigi main screen, but the scheme below works well for me:



Note that macro sets #1 and #2 are stacked just above the waterfall. Each row has 12 preconfigured macro buttons. You can set up this screen configuration by going to Configure/UI/Macros Tab. When you do, the following selection screen appears:

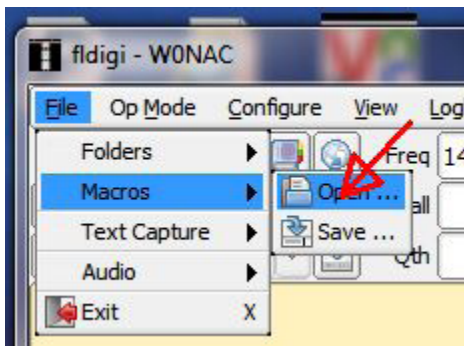


Select or check the same items as indicated on this screen followed by clicking on the “Save” button and then “Close”. Note, you won’t see any particular response to the “Save” action. This is normal for Fldigi.

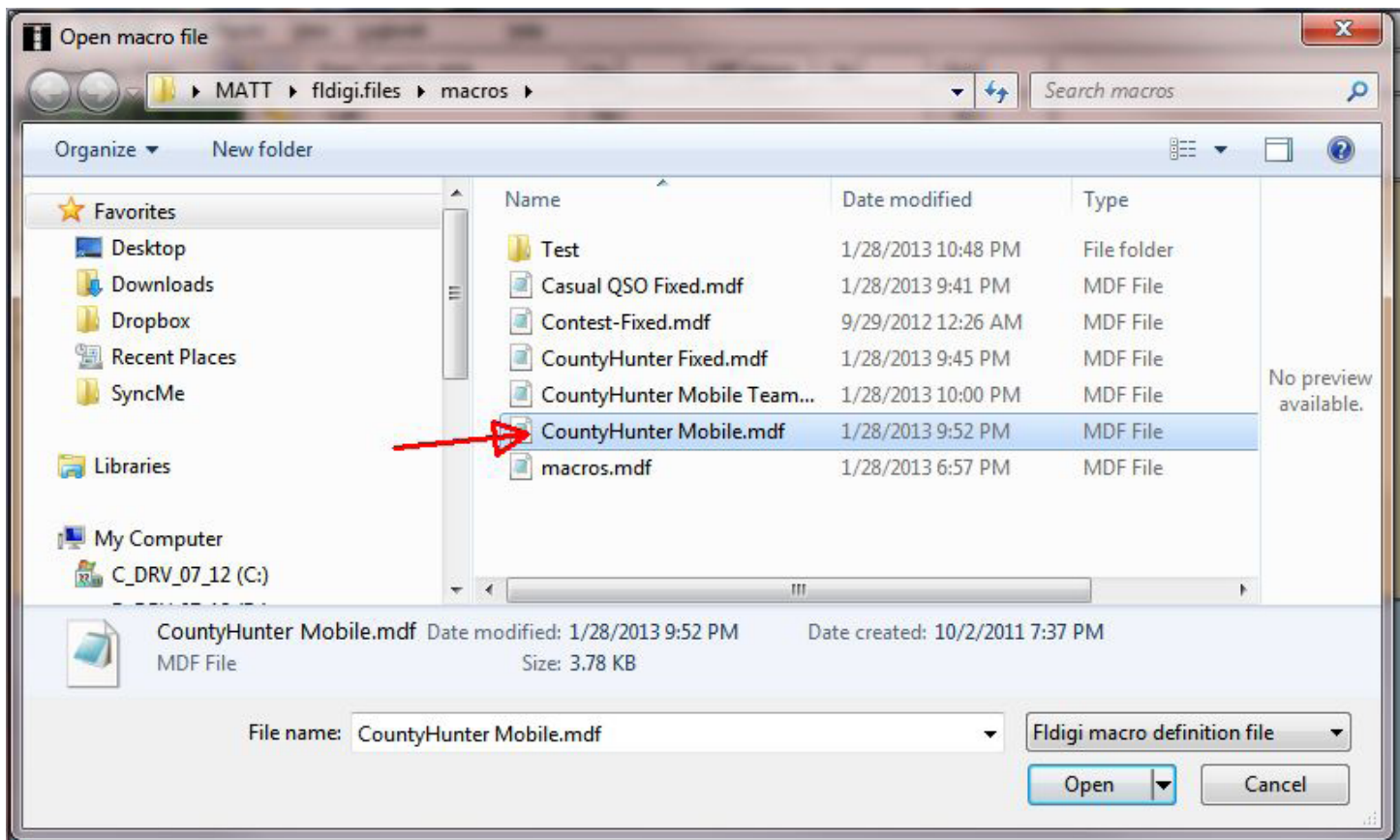
Next, you need to download a self-extracting file using the following Dropbox link: <https://dl.dropbox.com/u/26171574/Fldigi%20Macros%2001-28-2013.exe> . This file contains 4 macro files that you can use as a departure point in creating your own macros. You need to execute the self-expanding file to extract these 4 files into the following folder (assuming you are using Windows 7/Vista): “C:\users\\fldigi.files\macros\”. If you are using Windows XP, place them into “C:\Documents and Settings\\fldigi.files\macros\”. You should then see (along with other files created by Fldigi during installation) the following 4 files in your macro folder:

- 1) “Casual QSO Fixed.mdf” (For use during casual digital QSOs from your fixed station)
- 2) “CountyHunter Fixed.mdf” (Used if you wish to “put out” your home county)
- 3) “CountyHunter Mobile.mdf” (For use by single mobile operator putting out digital counties)
- 4) “CountyHunter Mobile Team.mdf” (For use by mobile team putting out digital counties)

You can edit these macro files by either use of a text editor (not recommended) or by using the built in editing screen within Fldigi (recommended). To load one of the files (you can only have one active at a time), open the Fldigi program and then click on “Open” under the File drop down menu as shown:

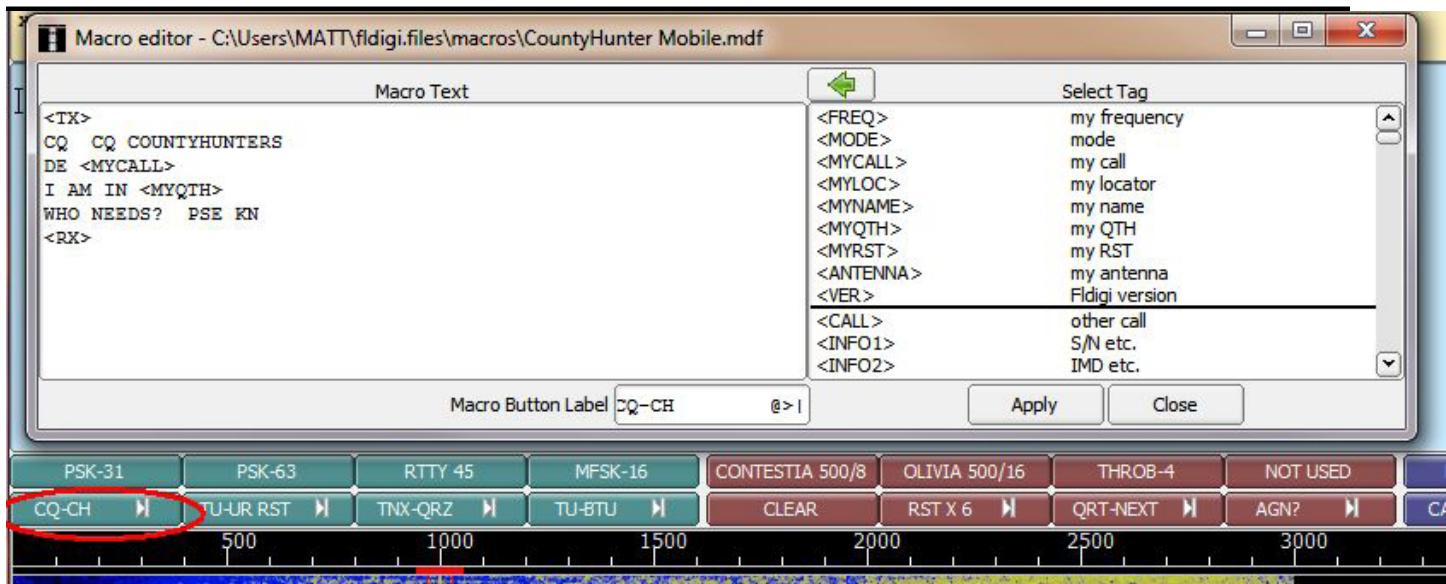


After you click on "Open", you will see the following screen:



You may have to first browse to the default folder given above. Then, select the macro file indicated with your mouse, then click on the "Open" button to open it. A short message will appear in the RX window telling you what macro file has been opened.

Now we are ready to look at the macro titled "CQ-CH". Open it for editing by Right clicking on it with your mouse. When you do, this is what you will see:



You do your editing in the left half of the editor screen. The right half contains all the various Tags that you may wish to use (These are pulled into the left screen by selecting one, then clicking on the green arrow at the top).

This particular macro starts with <TX> on the first line. This turns your transmitter ON. The next two lines in the macro automatically type in the following text: "CQ CQ COUNTYHUNTERS DE W0NAC". The <MYCALL> Tag simply retrieves your call sign from the Configure/Operator data file. The next line types in "I AM IN Kit Carson, CO" where the <MYQTH> Tag pulls in whatever you have stored for QTH in the Configure/Operator data file.

The next line types in "WHO NEEDS? PSE KN"

The <RX> Tag on the last line turns your transmitter OFF and returns your transceiver to the receive mode.

Think of macros as a shortcut means of typing what you wish to say plus controlling your transceiver functions at the appropriate time. There are basically two types of macros. The first type is self-contained and stands alone. This macro type will contain a <TX> at the beginning and a <RX> at the end.

The second macro type can be thought of as a quick typing text insertion tool. This macro type is principally used after your transmitter has already been turned ON manually. When activated, the second type macro simply inserts its text starting where you stopped typing manually and then waits for you to resume typing manually.

After modifying a macro, be sure and click the "Apply" button before "Close" or you will lose your changes. Also, be sure and "Save" your changed macro to its file name (or another file name if you wish) before exiting Fldigi.

During operations, you can RUN a macro either of two ways. First, you can LEFT click on the macro

button you wish to run. Second, each of the twelve macro buttons in macro set #1 corresponds to Function Keys F-1 through F-12. For example, pressing F-1 will run the "CQ – CH" macro. F-12 will toggle your transmitter ON & OFF each time it is pressed. To run the macros in sets #2, #3, and #4, hold the <SHIFT> key down as you type F-1 through F-12. For example, <SHIFT> F-2 will change the operating mode to PSK-63. If you forget any of this, simply "hover" your mouse cursor over any macro button and a message box will pop up telling you what keys or mouse clicks you should use to edit or run that macro.

The top row of macros is normally set by default to macro set #2. To switch to macro set #3 or macro set #4, you can either LEFT click on the small box at the extreme right end of the macro row to toggle, OR key in the command <ALT> 3 or <ALT> 4 to switch to the other sets. <ALT> 2 will return you to the default set #2.

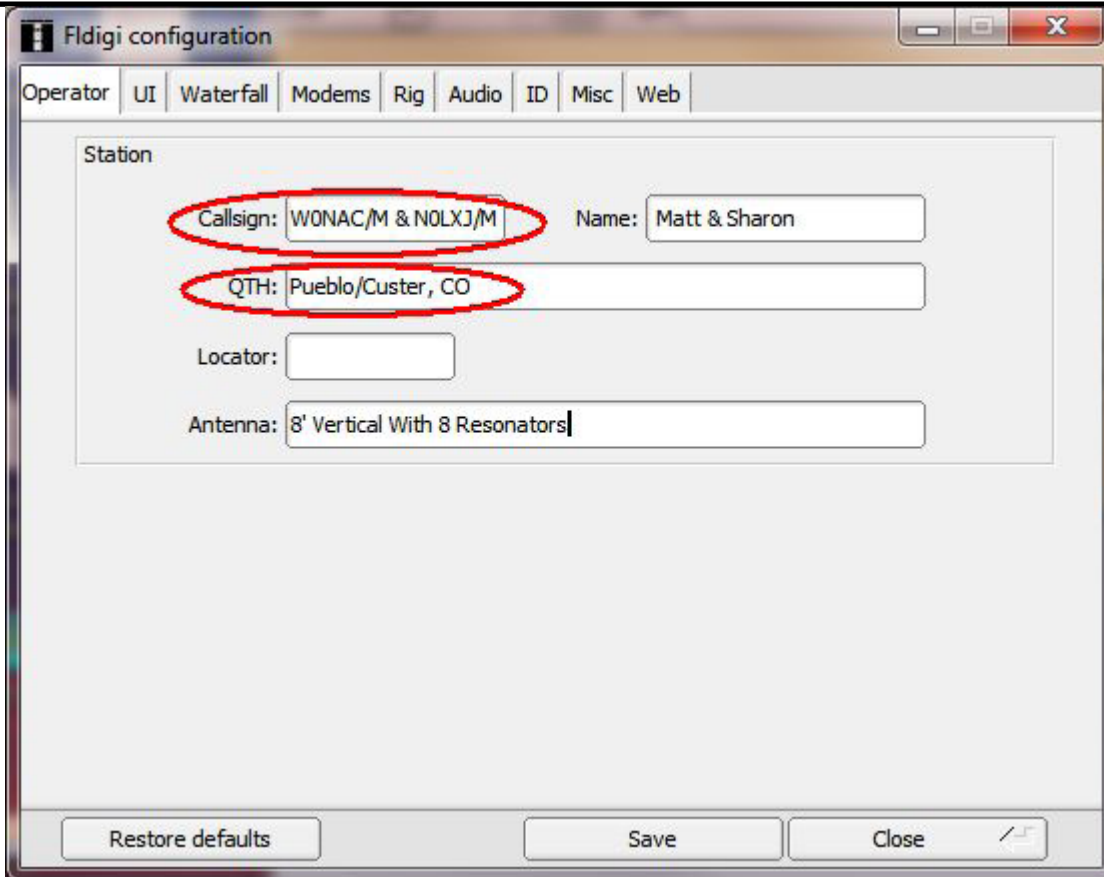
Use the <ESC> key as an emergency stop for any executing macro. It will also clear the buffer of any data waiting in line to be transmitted.

Once you are proficient with editing macros, I highly recommend that you either modify the samples I have provided, or create new ones of your own. After any changes, you should test the modified macros by running them and see if they produce the desired results. In any event, it is impractical to have sets of macros that will fit every occasion. You will find that from time to time, you will have to simply toggle the transmitter ON manually (F-12) and start typing exactly what you wish to say. I have only scratched the surface of macro use in this article. I highly recommend that you dig into the manual under "Macros". You can find the latest on-line help for Fldigi at <http://www.w1hkj.com/FldigiHelp-3.21/index.html>.

TYPICAL SEQUENCE OF EVENTS FOR MOBILE TEAM:

You have done all your homework and planning as outlined above and your macros are tested and ready to go. It is now time to put out a county line using digital modes. The following is what a typical sequence of events might look like. It can be used as sort of a checklist. Regardless of what is said here, each individual must do what they are comfortable with, so modify it if you wish. What follows is essentially the same sequence that a single mobile operator would use. The main difference for a mobile team is in the wording of the macros. Also, a mobile team can divide the duties of logging, spotting, setting up equipment, and running, where as a single operator must do everything themselves! Overall, it is probably a little easier for a mobile team than a single operator. Here is the sequence:

- 1) Navigate to and stop on the planned county line (or county stopping point).
- 2) Tune Xcvr dial to 14.0730 MHz and select USB.
- 3) Tune antenna (if needed) for acceptable SWR and make sure your audio drive level is set for a clean signal.
- 4) Check that your Fldigi software is running and has the following settings:
 - a. Configure/Operator:



Note: Only the "Callsign:" and "QTH:" items are critical to have correct since they are used as Tags in your macros. Don't forget to "Save" before "Closing" this window. Also, you will need to change the "QTH:" information each time you move to a new county/county line.

- b. Check that "OpMode" is set to the desired mode (You can use the macros in Set #2 to do this quickly).
 - c. Enter/Modify "Xcvr Freq" (if you want the "freq" box to indicate the true operating frequency).
 - d. Set waterfall offset to ~ 1000 Hz (move up/down a bit to avoid interfering with other signals if present).
 - e. Confirm that the "CountyHunter Mobile Team.mdf" macro file is open and refresh your memory on what each macro does.
- 5) When all is ready, switch to your web spotting site and spot yourself (or have helper spot you).
 - 6) Click on leftmost macro button (or press the F-1 key) to run the "CQ - CH" macro. Repeat as necessary.
 - 7) When another county hunter replies (usually with their call sign repeated 3 times), double click on their call sign to get it into the buffer (it will show in the Fldigi "Call" box near the top of the screen if you are successful). If needed, manually enter their call by clicking in the "Call" box and typing in their call sign.
 - 8) Then, click on the 2nd (from the left) macro button (Or press the F-2 key). This will acknowledge their call and transmit the standard 599 report.
 - 9) When the calling station acknowledges your 599 report and sends both 599 reports back,

click on the 3rd macro button from the left (or press the F-3 key). This will acknowledge receipt of their reports, BREAK, and then ask if others wish to call.

10) If another county hunter does call you, then go back to step 7) and repeat.

11) If no one else calls right away, go back to step 6) and repeat your CQ.

12) When you sense that all stations have completed their contacts with you, announce what you are going to do next. Options here include:

a. Change to next mode (Don't forget to change spot also)

b. Going on to next county line/county (be sure and announce your new band/frequency if changing)

c. Quitting for the day.

13) Drive on to next county line/county.

Please note that the "canned" responses in your macro set may not always be appropriate. You may need to respond to non-county hunter calls or questions by using the keyboard to manually type replies. To reply, toggle the transmitter to "ON" by pressing Function Key 12 (F-12) or clicking on the far right macro on the macro line. When finished typing, toggle your transceiver "OFF" by using the same button or key.

OTHER OPTIONS

For logging mobile team digital contacts I still recommend logging on paper. However, Fldigi has a relatively simple logging capability that some may wish to use. Fldigi does have an ADIF export capability that one might use to import logs directly into Logger, but I have not checked this feature out yet. Maybe someone else would like to do this? (Hint, Hint!)

MixW (and other software) has a more capable logging system which can be used within your macros to automatically log contacts which can be imported into Logger later. I have not had time to use this capability yet, but Lloyd (NX4W) uses this method extensively. Please contact him if you need more information on automatic logging using MixW macros.

I don't recommend using the near real time logging capability in Logger as I find it to be too awkward and slow to use, mainly because it requires constant screen switching (multi-tasking), but you may find it to your liking.

You can, of course, use digital modes other than the 4 suggested above. The new 5 – Mode Award allows using any of 33 approved modes. Of these 33 modes, 26 are considered to be digital modes (CW excluded). If sub-modes are included, one has nearly 100 mode/sub-mode combinations to choose from. However, a few of these modes are not very useful for putting out counties when mobile. For example, JT-65 contacts take 5-6 minutes to complete one short QSO which pretty much rules it out. Even so, there is still a wide variety of modes/sub-mode combinations that are just waiting for someone to try them out.

To sum things up, putting out counties as a mobile team using digital modes has about the same level of difficulty as doing it as a single operator. To date, Sharon and I are the only mobile team that has run counties using digital modes. We would love to see more!

DIGITAL ACTIVITIES IN JANUARY

Earlier I promised more detailed results from our 3 day trip around S/W Kansas. The following table shows everyone who made any digital contacts with us and how many contacts they made (1 QSO = 4 contacts if we were on a county line) by mode:

#	CALL SIGN	NAME	PSK	RTTY	MFSK	TOTAL CONTACTS
1	AA3KC*	STEPHEN	0	0	4	4
2	K3SEW*	RONALD	0	4	0	4
3	K4PBX	JIM	4	0	0	4
4	K5WAF	BILL	4	4	4	12
5	K7REL	TOM	8	0	0	8
6	K8QWY	ED	30	4	2	36
7	KC7YE	JACK	4	0	0	4
8	KG4Q*	LARRY	4	4	4	12
9	KM6HB	MARK	0	6	0	6
10	N0KV	BARRY	0	4	0	4
11	N1API	AL	4	4	0	8
12	N4JT	JIM	20	20	20	60
13	N5MLP	RON	20	24	20	64
14	N6PDB	DENNIS	40	36	40	116
15	N8CIJ	DICK	24	24	24	72
16	NA8W	DARL	4	4	12	20
17	NT2A	GENE	8	2	6	16
18	NX4W	LLOYD	32	40	24	96
19	W1ATV	WALT	4	4	0	8
20	W3DLM	DON	20	16	12	48
21	W4KDK*	KENNETH	0	4	0	4
22	W4YDY	DAVE	16	12	12	40
23	W7IN	LARRY	2	0	0	2
24	W9SUQ	LARRY	2	0	0	2
25	WA4UNS	DOUG	16	24	20	60
26	WB2ABD	PAUL	28	32	28	88
27	WD4OIN	JACK	16	16	0	32
	TOTALS:		310	288	232	830

* = Not A MARAC Member

We really do thank everyone for their support on this trip!

During January I provided advice and support in varying degrees to several people who called. As always, I stand ready to help anyone who has problems or wishes to get started with digital operations. Just email me or call me on the phone. My email is w0nac@comcast.net and my phone number is 303-799-3658. Call any time.

Table 1 has again been updated from last month. If I have left anyone off the list you have my sincere apology! Just drop me a quick email and include your stats, if you know them, and I will be pleased to add you to the list. Conversely, if you are on the list and feel that you don't belong, please also drop me an email and I will remove you.

Logger will currently give you your status for the USA – Digital Award (go to “View/Edit/Book/USA-Digital/All”), but for the 5 - Mode Award, Logger only reports those counties which have been worked using all 5 different modes. You can see your 5 - Mode Award status by going to “View/Edit/Book/5 - Mode/All”. A fix is still in the works that will report on the status of 1, 2, 3, and 4 completed counties also, but it may be awhile before this is released. While waiting, the 1, 2, 3, and 4 completed county columns for the 5 - Mode Award will have to remain blank for most folk. If you wish to send me your

call sign database file (Mine is named "County Hunter – WONAC.mdb") I can determine how many counties you have completed for 1, 2, 3, and 4 modes and place it in Table 1. However, be sure you have recently recalculated your 5 – Mode book before sending your file. Here is the updated Table:

Table 1 – Active Digital County Hunters Award Status

#	CALL	NAME	STATUS* (M,F,I)	USA - DIGITAL Counties (of 3077)	(1 MODE)	(2 MODES)	FIVE MODE COUNTRIES (3 MODES)	(4 MODES)	(5 MODES)	LAST UPDATED
1	AA8R	Randy	F	1000+	-	-	-	-	-	9/30/2012
2	AC0B	Cliff	F	205	-	-	-	-	-	12/10/2012
3	AD1C	Jim	F	-	-	-	-	-	-	
4	K0DEQ	Bill	F	-	-	-	-	-	-	
5	K0PVW	Rob	F	-	-	-	-	-	-	
6	K0WJ	Lou	F	-	-	-	-	-	-	
7	K4PBX	Jim	F	-	-	-	-	-	-	
8	K5GE	Gene	F	-	-	-	-	-	-	
9	K5SF	Dick	F	-	-	-	-	-	-	
10	K5WAF	Bill	F	-	-	-	-	-	-	
11	K7REL	Tom	F	-	-	-	-	-	-	
12	K8QWY	Ed	F	-	-	-	-	-	-	
13	K8ZZ	Ed	F	-	-	-	-	-	-	
14	KC3X	Hollis	F	-	-	-	-	-	-	
15	KC6AWX	Bob	F	-	-	-	-	-	-	
16	KC7YE	Jack	F	-	-	-	-	-	-	
17	KD5YUK	Billv	F	-	-	-	-	-	-	
18	KD7KST	Bill	M/F	1792	-	-	-	-	-	9/30/2012
19	KG5RJ	Gregory	F	389	3048	196	359	57	15	1/2/2013
20	KM1C	Bill	F	-	-	-	-	-	-	
21	KM6HB	Mark	F	-	-	-	-	-	-	
22	N0KV	Barry	M/F	-	-	-	-	-	-	
23	N0LXJ	Sharon	M/F	1313	3077	2209	1128	360	165	1/25/2013
24	N1API	Al	F	-	-	-	-	-	-	
25	N3HOO	Ed	F	-	-	-	-	-	-	
26	N4IT	Jim	F	572	3077	3058	575	99	55	10/30/2012
27	N5MLP	Ron	M/F	-	-	-	-	-	-	
28	N6PDB	Dennis	F	142	3077	2477	66	0	0	1/23/2013
29	N8CIJ	Dick	F	481	3077	2971	393	117	109	1/21/2013
30	N8HAM	Jim	I	-	-	-	-	-	-	
31	NA8W	Darl	F	428	2972	?	?	?	45	12/3/2012
32	NF0N	Mike	F	785	3077	3077	915	108	50	12/31/2012
33	NN9K	Pete	F	816	3077	859	78	1	0	3/23/2012
34	NT2A	Gene	F	-	-	-	-	-	-	
35	NU4C	Paul	F	-	-	-	-	-	-	
36	NW6S	Jim	F	-	-	-	-	-	-	
37	NX4W	Lloyd	M/F	1070	3077	1098	157	4	0	12/19/2011
38	W0NAC	Matt	M/F	1726	3077	2780	1842	854	267	1/25/2013
39	W3DLM	Dnm	F	-	-	-	-	-	-	
40	W4IHI	Garv	F	-	-	-	-	-	-	
41	W4SIG	Kerrv	F	-	-	-	-	-	-	
42	W4YDY	Dave	F	-	-	-	-	-	-	
43	W6RK	Risto	F	-	-	-	-	-	-	
44	W6RLL	Joe	F	-	-	-	-	-	-	
45	W7IN	Larry	F	-	-	-	-	-	-	
46	W7QQ	Bill	M/F	-	-	-	-	-	-	
47	W9JR	Rich	F	90	3077	1674	44	0	0	10/31/2012
48	W9SUQ	Larry	F	-	-	-	-	-	-	
49	WA4UNS	Doug	F	-	-	-	-	-	-	
50	WA7JHQ	Sterling	F	-	-	-	-	-	-	
51	WB0M	Jeff	F	-	-	-	-	-	-	
52	WB2ABD	Paul	F	-	-	-	-	-	-	
53	WD4OIN	Jack	F	-	-	-	-	-	-	
54	WQ7A	Terry	F	-	-	-	-	-	-	
55	WY4D	Bennie	F	-	-	-	-	-	-	

Possible topics for the coming months include –

“How to log your digital contacts in Logger”

“How to fine tune your Interface”

“Other Interesting digital modes (JT-65)”

“Award Difficulty Index”

“New Digital Awards ?”

So long again.....Please email me with your comments/suggestions at w0nac@comcast.net and don't forget to send me your counties worked status on the USA – Digital and 5 - Mode Awards so I can update the Digital County Hunter Status List again next month.

73's and we'll see you down the waterfall,

Matt – WONAC



Deadwood was honored in True West magazine's "Best of the West" contest again for 2013. This time, Deadwood was honored with the "Best Town for Historic Entertainment" award. Thanks to the Deadwood Alive Board, Deadwood Historic Preservation, Deadwood Alive Gunslingers and the cast of the Trial of Jack McCall for their hard work and historical integrity!

The Best of the West awards will be in the January 2013 edition of True West magazine, which has a circulation of more than 200,000, plus newsstand sales.

Last County Awards

THE FOLLOWING RECEIVED LAST COUNTY AWARDS FOR JANUARY
 FOR MORE INFORMATION GO TO: <http://www.marac.org>

Email - Last County	Email - Last County	Email - Last County	Email - Last County
To Call	To Call	To Call	To Call
WY0A	AB7NK	N9QS	N9QS
WY0A	K7SEN	K0FG	N9QS
K0FG	KBOBA	N9JF	N9QS
W5QP	N0XYL	N9STL	N9QS
N9JF	N0XYL	W5QP	N9QS
W0NAC	N8OYY	WG9A	N9QS
N9JF	N0XYL	W3DYA	N9QS
W8FNW	N5MLP	WG9A	N4CD
KD4HXM	K7TM	KD4HXM	N2OCW
K8ZZ	K7TM	WA9DLB	N4AAT
KR6F	K7TM	N9STL	N9STL
KB7RUQ	AB7NK	K2HVN	AB4YZ
K2HVN	K7SEN	WG9A	N4CD
N5MLP	AB7NK	WG9A	N4CD
N5MLP	K7TM	KC4HW	WQ7A
AB7NK	N9QS	W4SIG	WY7ML
WV2B	N9QS	N4CD	WY7LL
N9QS	N0KV	N4JT	AB4YZ
N8OYY	K0FG	K0FG	N8OYY
N5MLP	WD4OIN	N9QS	WY7LL
N5MLP	WG9A	AA9JJ	W7FEN
N5MLP	K8ZZ	K1SO	W7FEN
K2HVN	N8KIE	K6PJ	KW1DX
N5MLP	N5KUC	W7FEN	KBOBA
K8QWY	K7TM	AA5TL	AF3X
K7SEN	W9XYL	K2HVN	AF3X
W4SIG	W4SIG	KD7KST	KB6UF
KC3X	KA4RRU	N9STL	W3CR
W5IL	N8HAM	WY7ML	KB6UF
WG9A	N5UZW	N8HAM	KB6UF
KC3X	K0FG	N9STL	WG9A
W5IL	N9JF	N8OYY	W8FNW
N2JNE	N9STL	N8OYY	WG9A
W4SIG	KW1DX	N8OYY	N3HOO
N2JNE	KW1DX	N5UZW	KE3VV

THE FOLLOWING RECEIVED LAST COUNTY AWARDS FOR JANUARY
 FOR MORE INFORMATION GO TO: <http://www.marac.org>

Email - Last County
To Call
N8KIE
WG9A
KB0BA
KB6UF
WY7ML
WY7LL
N9QS
KM9X
KB9MGI
N9AC
WG9A
N9STL
N4AAT
N4AAT
N5UZW
N0LXJ
N7ID
N7ID
N9QPQ
AA9JJ
N9QPQ
WG9A
W8TAX
N8KIE
W4YDY
WG6X
N0KV
A15P
W8FNW
N8KIE
VE9SX
KC3X
N7ID
N7ID
NM2L

Email - Last County
To Call
N9JF
WQ7A
K6PJ
N0KV
KQ2M
N0KV
W4SIG
N4CD
N4CD
K8ZZ
N9QS
K1GQ
N0KV
N4CD
N4CD
N4CD
N4CD
N4CD
N4CD
N4CD
N4CD
N4CD
ND9M
NU0Q
KM1C
W0GXQ
N4CD
W3DYA
K4ZGB
N4CD
NY4N
N9QS
W4CA
N0KV
N4CD
N4CD
N4CD
N9STL

Email - Last County
To Call
K2HVN
K8ZZ
KB6UF
W0GXQ
W0GXQ
W0NAC
N0KV
N0XYL
N9QS
N9QS
W9MSE
W0FP
KW1DX
KW1DX
N9QPQ
AA9JJ
W7FEN
W9GUY
K5GE
K5GE
W4SIG
N9QPQ
AA9JJ
N8KIE
N9QS
N5MLP
AA9JJ
N9QPQ
WQ7A
K2HVN
AA9JJ
AA9JJ
KB6UF
N4CD
N8KIE

Email - Last County
To Call
NT2A
W9MSE
WQ7A
N8KIE
W9MSE
W9MSE
W5QP
W5QP
W9MSE
W7FEN
N5MLP



Awards

Awards Issued For January			
Call	Date	Award	Number
KW4V	1/19/2013	BINGO III	# 26
K7REL	1/5/2013	USA-PA "W"	# 10
AB7NK	1/12/2013	USA - Single Band	# 18 - 20 Meters - 3077 Counties

Roadrunner Issued For January				
Call	Date	Count	Award	Number
NOKV	1/28/2013	Last County Count 425	Last County Count 425	# 38
NOLXJ	1/26/2013	Last County Count 175	Last County Count 175	# 128



Birthdays

Roadrunner - Birthdays	
Call	Birthday Date
K5TQ	Feb - 01
WA0SGJ	Feb - 01
NG9J	Feb - 02
KQ4FA	Feb - 02
N5PRU	Feb - 02
NA7MT	Feb - 02
NK7B	Feb - 03
WB7ATT	Feb - 03
WB5P	Feb - 04
KD4QIT	Feb - 04
NG6X	Feb - 04
KA1Q	Feb - 05
W3QZ	Feb - 06
W9RR	Feb - 06
WA0ZVF	Feb - 06
AA9MW	Feb - 07
AA4S	Feb - 07
KJ8F	Feb - 07
WV9N	Feb - 07
K8IW	Feb - 07
WN1F	Feb - 07
N4FTA	Feb - 08
KJ6DB	Feb - 08
NOBHO	Feb - 08
K5BDL	Feb - 08
K0DBK	Feb - 08
K8VJV	Feb - 09
WD9BCG	Feb - 09
W7ZD	Feb - 09
N8MD	Feb - 09
N1GM	Feb - 09
AB7NK	Feb - 10
K2HPV	Feb - 10
W1JD	Feb - 10
N5IWA	Feb - 10
W3REG	Feb - 10
KL7JR	Feb - 10

Roadrunner - Birthdays	
Call	Birthday Date
N4ACS	Feb - 11
N5PU	Feb - 11
KA1YZV	Feb - 11
KH6KW	Feb - 12
NH6SR	Feb - 12
WC5D	Feb - 12
W4DUE	Feb - 12
N4TOG	Feb - 12
KD0ID	Feb - 12
K5NV	Feb - 13
N8ELQ	Feb - 13
K3CAV	Feb - 13
AB5C	Feb - 13
KK5MI	Feb - 13
N4CCJ	Feb - 14
N9KEH	Feb - 14
KL1V	Feb - 14
AA4C	Feb - 14
KF4YR	Feb - 14
K1NY	Feb - 15
N2IRQ	Feb - 15
N0CKC	Feb - 15
N7TT	Feb - 15
K4KWW	Feb - 15
N7UG	Feb - 15
AI9Q	Feb - 15
K1NGJ	Feb - 15
W9STW	Feb - 15
WC9O	Feb - 16
N8LXQ	Feb - 16
KS4DD	Feb - 17
AE3O	Feb - 17
KT0K	Feb - 17
KE9FH	Feb - 17
W0TOL	Feb - 17
WB9YCO	Feb - 17
WS9G	Feb - 17

Roadrunner - Birthdays	
Call	Birthday Date
KA7RRA	Feb - 17
NOCSM	Feb - 17
KB4FS	Feb - 18
KD4NFE	Feb - 18
W4ABW	Feb - 18
K5UO	Feb - 18
N0KV	Feb - 18
NX4C	Feb - 19
K4BIO	Feb - 19
KB1EG	Feb - 19
K9KDS	Feb - 20
KC8ZON	Feb - 20
N9VRZ	Feb - 21
N8SVR	Feb - 21
W5RIT	Feb - 21
AE4FL	Feb - 22
KB6TAL	Feb - 22
NL7BY	Feb - 22
KZ3K	Feb - 22
N7CLA	Feb - 22
WA3QNT	Feb - 22
WB3Q	Feb - 22
K8IWI	Feb - 22
WDOEPE	Feb - 23
K4QL	Feb - 23
KS5A	Feb - 23
WB7VIZ	Feb - 23
N4RWH	Feb - 23
KA2PUX	Feb - 23
W4ARH	Feb - 24
NO2W	Feb - 24
K4AMC	Feb - 24
K9OFF	Feb - 24
W2UP	Feb - 24
K8QWY	Feb - 24
K0WY	Feb - 24
K8MW	Feb - 24

Roadrunner - Birthdays

Call	Birthday Date
KA8MSU	Feb - 24
WB0M	Feb - 25
N3RC	Feb - 25
K8CW	Feb - 25
WD9EMW	Feb - 25
KD7IQ	Feb - 25
N3DMI	Feb - 25
W7AV	Feb - 25
AF5Q	Feb - 25
W5EHY	Feb - 26
K8WR	Feb - 26
KC2RS	Feb - 26
KU8R	Feb - 26
KK7LX	Feb - 26
N7MZI	Feb - 27
W0HFG	Feb - 27
KR0I	Feb - 27
AA7LJ	Feb - 27
K4EEE	Feb - 27
K7REL	Feb - 28
K0ARS	Feb - 28
N5XG	Feb - 28
N5DG	Feb - 28
WK5A	Feb - 28
AB4OI	Feb - 28
AB7KT	Feb - 28
KJ7FJ	Feb - 29



**Treasurer's Report (W0NAC)
December 2012***

Beginning Account Balances Dec 4, 2012 **\$33,546.49**

December Income:

Money Market Interest	\$2.07	
Awards Manager Income	\$396.00	
Membership Income	\$756.00	
Logger distribution	\$20.00	
Total Income:		<u>\$1174.07</u>

December Expenses:

Awards Manager Expenses	\$0.00	
Office Expenses	\$0.00	
Miscellaneous Expenses	\$900.00	
Total Expenses:		<u>\$900.00</u>

December Net Income Less Expenses **\$274.07**

New Total Balance ALL Accounts: **\$33,820.56**

Checking Account Balance	<u>\$7811.33</u>	
Money Market Account Balance	<u>\$26,009.23</u>	
Total:		\$33,820.56

Note:

The following monies are not included in the above:

Awards Chairman's Funds	\$1,500.00
-------------------------	------------

* Includes December transactions recorded through 1/5/2013



**Awards Manager's Report
January 30, 2013**

Funds Balance December 31, 2012		\$1,500.00
Income	\$ 126.50	
	<u>\$ 126.50</u>	
Expenses:		
Office supplies	\$ 65.19	
Plaque Suppliers	\$ 308.50	
Postage	\$ 57.15	
	<u>\$ 430.84</u>	
Sent to Treasurer		\$ 126.50
Reimbursement received from Treasurer		\$ 430.84
Funds Balance January 30, 2013		\$1500.00



Calendar

~ February 2013 ~						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
ONLY START DATE SHOWN		CLICK ON EVENT TO GO TO THE WEB SITE			1	2 VT QP 10-10 SSB QP MN QP STRT KEY QP
3 NA CW SPRNT	4	5	6	7	8	9 LA QP OMISS QP NH QP
10	11	12	13	14	15	16
17	18 RUN4BACON	19	20	21	22	23 MS QP NA RTTY QP
24 NC QP	25	26	27	28	Notes:	



National

Please join us for the
2013 MARAC
National Convention



in the Beautiful **BLACK HILLS** OF SOUTH DAKOTA

Hill City, SD



Rapid City Area, SD



45TH ANNUAL MARAC NATIONAL CONVENTION

JULY 10TH THRU JULY 13TH 2013

(Deadline for Early Registration Prize Drawing is May 1, 2013)

Name: (First, Last and Surname) _____

Address: _____

City, State, Zip : _____

ADDITIONAL NAME BADGES/TROLLEY PASS \$7.00 EACH

NAME: _____ CALL _____ USA-CA _____

NAME: _____ CALL _____ USA-CA _____

NAME: _____ CALL _____ USA-CA _____

REGISTRATION INCLUDES 1 BADGE & TROLLEY PASS, 1 PRIZE TICKET

1 CASH TICKET & E-MAILED PHOTOS AND AS MUCH FUN AS WY7LL

AND WY7ML CAN PROVIDE YOU ALL FOR _____ \$67.00

FRIDAY NIGHT BBQ RIBS*HOT DOGS*BURGERS*SALADS & CHIPS X \$21.00 ea. \$ _____

SATURDAY NIGHT BANQUET 4 MEAT SUPPET X \$50.00 ea. \$ _____

PRIZE TICKETS \$1.00 EACH OR BOOK OF TWELVE \$10.00 \$ _____

CASH TICKETS \$1.00 EACH OR BOOK OF TWELVE \$10.00 \$ _____

THURSDAY MORNING TOUR : Historic Deadwood including Boothill Cemetery with W.M.

Bill Heikok and Calamity Jane *Homes to Gold Mine *Roundhouse Living Map X \$20.00 ea. \$ _____

THURSDAY AFTERNOON TOUR: Keystone shopping & buy your own lunch *

1880 Train to Hill City * Prairie Berry Winery X \$55.00 \$ _____

(If you take both tours Thursday \$50.00 total save \$5.00) Both Tours X \$ 50.00

FRIDAY TOUR OPTION ONE: Mt Rushmore-Crazy Horse buy your own lunch X \$25.00 \$ _____

Leave at 9:00 be at Rushmore about one hour...about 2 1/2 hours at Crazy Horse
for lunch back about 4:00.

FRIDAY TOUR OPTION TWO: Mt Rushmore * Iron Mountains Road

Custer State Park * Buy your own lunch at State Game Lodge

Needles Highway * Crazy Horse... Leaves @ 8:00 back @ 6:00 X \$67.00 ea. _____

Mail To: Leo Bingham WY7LL

28 Buck Drive

Pine Haven, Wyoming

82721

GRAND TOTAL : _____

make Check Payable To Leo Bingham

Awards Committee

These MARAC members are serving on the Awards Committee:

Awards Manager - Bob Devine (KC6AWX)

Phil Yasson (AB7RW)

Bob Gedemer (KA9JAC)

Dave Splitt (KE3VV)

Kent Reinke (KL1V)

Ed Palagyi (KN4Y)

Leo Bingham (WY7LL)

“Matt” Mathew (W0NAC)

David Pyle (KW1DX)

The County Line Roadrunner
MARAC Secretary
2690 Bohicket Rd
Johns Island, SC 29455

“A Road Runner Is A Very Fast Bird”

Monthly Deadline for Articles is the 25th!

Board of Directors

President: David Splitt, KE3VV, 6111 Utah Ave NW, Washington DC 20015, 301-300-2818, davidsplitt@erols.com

Vice-President: Leo Bingham, WY7LL, 28 Buck Dr, Pine Haven, WY 82721, 307-686-8230, wy7ll.lightningleo@gmail.com

Secretary: Jim Grandinetti, KZ2P, 2690 Bohicket Rd, Johns Island, SC 29455, 843-323-8385, k2jg@comcast.net

Treasurer: Matt Matthew, W0NAC, 17525 Wilde Ave, Unit 108, Parker CO 80134, 303-941-0867, w0nac@comcast.net

Great Lakes Director: Dan Mulford, KM9X, 5225 N Co Rd 100E, Osgood IN 47037, 812-498-6702, km9x@frontier.com

North Central Director: Tony Mazzocco, WA9DLB, 275 E County Line RD, Barrington, IL 60010, 224-678-5265, wa9dlb@hotmail.com

Northeast Director: Carol-Ann Reitman, AB2LS, 100 Woodbury Rd, Highland Mills, NY 10930, 845-928-6238, ab2ls@optonline.net

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