



THE COUNTY LINE ROADRUNNER

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Riding the County Lion Dave – KE3VV

Memorial Day weekend was a memorable one for many reasons – a sad day because I lost my dog and companion, Leo, to old age and a variety of ailments – and a contemplative day because I always remember my Dad and Father-in-law and their exploits flying during WWII – and an inspirational day because my many friends in Rolling Thunder came to Washington, DC to honor our Vets with flags and salutes and the cacophony of a thousand and a thousand more motorcycles and bikers. Both the Big Green Dragon and the County Lion have learned to stand at attention when some of the guys and gals from the Thunder roll through the neighborhood on their way to the parade.

I also remember my Dad because he was my original inspiration for learning Morse code and becoming a ham radio operator. Back when he was barely out of high school, Dad trained as a radio operator in the Army Air Force, and (after getting his sergeant stripes) was the first non-com enlisted man to arrive at Sarasota Army Air Field after the field was leased to the Army Air Corps as a training base and the 97th Bombardment Group. The 97th transferred from MacDill Field (across the bay near Tampa) to Sarasota to begin training on the B-17 Flying Fortress for eventual deployment to Europe. The first officer to arrive at the base about the same day as Dad was Major Paul Tibbets, a crack B-17 pilot who formed a friendship with Dad that would last throughout the war and afterwards. Dad was a crack radio operator and Maj. Tibbets added Dad to his B-17 Flying Fortress crew for training and anti-submarine patrols.



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When the 97th Bomb Group deployed to England with the Eighth Air Force in England in May, 1942, as part of Operation Bolero (code name for the U.S. military build-up in England), my Dad was radio op on a B-17 with Tibbets. The other officers on that crew included Ted “Dutch” Van Kirk (navigator) and Tom Ferebee (bombardier), both of who were with Tibbets on the crew of the Enola Gay, which dropped the big one on Hiroshima to help end the war in the Pacific. By the time Tibbets and the others had transferred to the larger B-29 bombers, Dad had also moved on, managing the radios on C-46 transports flying the Hump over the Himalayas into China.

But earlier, in August 1942, the 97th Bomb Group flew the first Eighth Air Force heavy bomber mission of the war, attacking the Rouen-Sotteville marshalling yards in France. The inaugural mission including 18 bombers: 12 to attack the yards and 6 to fly a diversion along the coast. I can imagine Dad sending the first “bombs away” coded message back to England from as the bombers dropped their loads and turned for home.

Later, Dad was on the radios when the Red Gremlin flew single aircraft unescorted missions to fly Gen Mark Clark and Gen. Dwight Eisenhower to Gibraltar, where they boarded submarines bound for Africa as part of Operation Torch, which saw the Allies invade Africa.

There are times when I am on the road and putting out counties that I think about my Dad and how proud I am of his service... and how proud he was when I learned the Morse Code as part of my Boy Scout training, and later when I passed my Extra Class test and became a member of the ham radio group recognized for Morse code proficiency.

Dad was always fascinated by the compact size of the ICOM 706MkII and Bencher key setup in the F-150, as well as the ability of that equipment to allow me to not only put out counties on the fly, but also make contacts around the world.

While next month will bring a long-distance rail trip to the MARAC National Convention in Visalia, CA, this month will signal a return to the road and putting out counties for KE3VV. Although I will certainly miss Leo, the ruffian scruffian border terror, he was not able to enjoy road trips so much in his last few years – although getting his cataracts fixed a couple years ago did visually enhance his rides in the pickup, longer trips were hard on him, so I have had limited opportunities to venture out on the road. I am looking forward to more time on back roads and byways – first to finish up transmitting counties for Master Platinum (fewer than a couple dozen counties left to go) and then to begin serious efforts to finish up transmitting from all of the counties in West Virginia, Pennsylvania, and North Carolina... for starters.

The County Lion and Big Green Dragon are looking forward to Visalia (although the Lion keeps muttering about California sliding into the Pacific after the Big One hits). Not to worry on this trip – Visalia is well away from the coast, so at worst the Lion will have to learn to surf the new seashore in the Valley. Look for us all on the road in the next month as we finish up the last few counties for Master Platinum transmits and, if all goes extremely well, we get a few of the remaining nine counties for 8th Time, the last half dozen for USA-CW II, and so on and so on... 73 and Good Hunting from the Prez, the Dragon, and the County Lion.

Dateline CW

Ed, KN4Y

To the glory that is CW county hunters. And the grandeur that is MARAC

I hear Gator coming in his 4 x 4 with the overzealous exhaust system. He slides to a stop at the recycled railroad tie. He stops at the mailbox before entering the radio shack. “Well look what the dog dragged in, where you been Gator?” He puts the mail on the desk. I have been giving CW lessons to the girl at the coffee shop, and she makes me triple strength lattes.” “Gator, check the length of her ring finger and index finger, the closer in length the easier to lean CW.” He gives me the finger. I hand him a memory stick, “See what we did in the Florida QSO party.” I think to myself, really, Gator is teaching CW.

Gator loads the log as I sip my triple strength latte. I open a jar of peppered cashews and give Gator some. Gator is looking at the computer screen, “Well Dude, you remember the band conditions during the Florida QSO party did not leave much to the ears. I also noticed you used mostly 20-meters.” “Yes Gator, I heard only noise on 40-meters and just a few QSO’s on 15-meters.” Gator holds his hand up, “Please Dude do not interrupt. I will read your results by county: Alachua-29 QSO’s and 18 Multipliers, Baker-24-18, Bay-30-16, Bradford-37-23, Calhoun-29-14, Clay-19-11, Columbus-23-13, Dixie-16-9, Franklin-30-17, Gadsden-19-13, Gilchrist-13-9, Gulf-15-12, Hamilton-21-17, Holmes-28-14, Jackson-20-12, Jefferson-18-11, Lafayette-18-13, Leon-11-10, Liberty-24-13, Madison-4-2, Putnam-30-18, Suwannee-8-6, Taylor-22-13, Union-26-18, Wakulla-22-15, Walton-27-15, and Washington-29-16. You traveled 530 miles on Saturday and 289 miles on Sunday, not bad for an old man” Gator is laughing as sips his latte.

Gator is reading the computer screen, “Dude I see the MARAC 46th National Convention is in Visalia California. Do you plan to attend?” I sip my latte, “What are the dates?” “The dates are July 9 through the 12.” “Nope, can’t attend that is the weekend of the IARU.” Gator turns around in the chair, “Dude is not the MARAC QSO party in July?” Yes, normally the last weekend of the month but there is no MARAC QSO party this year.” Gator spits out coffee “What? Why?” I shake my shoulders, “The MARAC management forgot and did not make plans for the QSO party.” Gator is shocked, “What kind of a amateur club does not have a radio operating event?” “Well Gator, as county hunters we operate on a daily basis.” “Bummer!” I hand Gator the jar of peppered cashews, “Hopefully next year management will be on the ball. See what I did in the 10-10 Spring CW QSO party.”

“See Dude the 10-10 international Net has a QSO party and they also operate on a daily basis. You got three new counties on 10-meters and 19 new ten numbers.” “Should have been more because the band was open and not many knew it.” I hand Gator another memory stick, “Here, see what I did in the CQ-M international DX contest and the King of Spain CW contest.” Gator reaches into his pocket and hands me a note, “I read: the largest number is 5^{678} . That is approximately 10 to the 4.5 millionth power.” Gator smiles, “That is my answer to the mathematics question you gave me.” I am amazed, “That is the correct answer, how long did it take you?” Gator is laughing, “Not long I found the magazine that contained the problem and answer, and by the way did you go to the Dayton Hamvention?” “No Gator, been there, done that.” Gator starts checking my logs.

“You made 85 QSO’s mostly on 15 and 20-meters in the CQ-M contest and 44 QSO’s in the King of Spain CW contest. This is not county hunting.” “I know, but it is good CW practice and it gave me

something to do between mobile runs on the county hunters nets. Also check out the CQ World Wide CW WPX contest log.”

Gator’s cell phone activates, “Sorry Dude I will get the CQ contest later. The splitter split on the concentrator.” He is gone like a rabbit at the dog track. I think I heard him yell, “I could not find a thing at Wal-Mart.” The printer stops and I get the printout, it is list of stations heard in May on the CW county hunter frequencies. I read: AB7NK, AB7RW, AC0B, K0PY, K2HVN, K3IMC, K4YFH, K4YT, K4ZGB, K5YAA, K7FEN, K8OWY, K8ZZ, K9JWV, KA4RRU, KB9OWD, KC5P, KC7YE, KO7X, N2OO, N4CD, N9JT,N9JF, N9QS, NM2L, NT2A, VA3XOV, W0CML, W0GXQ, W0CE, W3DQT, W4SIG, W5IL, W5QP, W7FEN, K7TM, W8UE, WA2CNJ, WA3QNT, WA4UNS and, WD4OIN,

The last weekend in June is the premier operating event known to all as ARRL Field Day. Prior to this magnificent event try a CW warm-up in the LZ Open 20-meter Contest. There are two QSO parties this month: Alabama with 67 counties and West Virginia with 55 counties. I will be mobile in the Alabama QSO party and hope we make a CW contact. Need some counties on 6-meters try the ARRL June VHF contest or for some DX work the All-Asian DX CW contest. Need some counties on 160-meters try the Stew- Perry CW warm-up contest. I reminisce back when my junior prom offered day care. All this excitement, so little nap time.



New Members

<u>MARAC Number</u>	<u>Callsign</u>	<u>Name</u>
R4556	K9JP	Jeff Peters
R4557	AE7KI	Gerry Rosam



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 the payment of dues and valid membership application by the MARAC Secretary. Those individuals maintaining uninterrupted membership status are not restricted from nominating or voting in the current month.

BALLOT RECOGNITION

I would like to congratulate the following stations for receiving recognition from their peer's and votes in the 4th quarter award voting: (no particular order). Only stations receiving 3 points or more are listed.

NET CONTROL SSB: KA1JPR, AB7NK, KZ2P, N5UZW, WY8I, N4AAT

NET CONTROL CW: KW1DX, W0GXQ, K7VAY

BEST MOBILE SSB: N0KV, W4SIG, N9STL, KB6UF, AF3X, KW1DX, WQ7A, K4YT

BEST MOBILE CW: N4CD, W4SIG, W0GXQ, K5YAA, KW1DX

BEST TEAM: N0KV/N0DXE, KB0BA/N0XYL, AA9JJ/N9QPQ, AB7NK/K7SEN

Kent Reinke
MARAC Election Coordinator
1826 East 4500 North
Buhl, Idaho 83316



National

MARAC National
46th Annual National Convention 2014 Registration
July 9 - 12 Visalia, California
(Deadline for Early Registration Prize Drawing is May 1, 2014)

NAME: (First Mi, Last) _____

ADDRESS: _____

CITY _____ ST/PROV _____ POSTAL CODE _____

Convention registration fee: \$ 45.00

(One registration fee/family unit - Includes 1 prize ticket & 1 group photo)

NAME ON BADGE _____ CALLSIGN _____ USACA# _____

Additional Name Badges (list information below) Total # _____ @ \$5.00 each = \$ _____

Name _____ Callsign _____ USACA# _____ Relation _____

Name _____ Callsign _____ USACA# _____ Relation _____

Relation: W-Wife, H-Husband, D-Daughter, S-Son, M-Mother, F-Father, X-Friend, GD-Grand Daughter, GS-Grand Son, for any additional badges please attach or list on back of form.

Enter number of persons that will attend events

Wednesday 09 July - Check-In/Do It Yourself Activities

Thursday 10 July

If enough interest a Bus will come to the hotel, free of charge and transport a group to the nearby Indian Casino, please check here if interested _____

Friday 11 July

Sequoia National Park)

CLOSED = \$ _____

Saturday 12 July

Banquet - San Joaquin Buffet

- Mixed Field Green Salad with assorted Dressings
Pasta Salad with Bay Shrimp, Red Onions, Red and Yellow Bell Peppers
Platter of Sliced Fresh Fruit and Berries
Grilled Balsamic Vegetable Platter with Fresh Mozzarella Cheese
Braised Breast of Chicken in Red Wine Sauce with Pancetta and Pearl Onions
Charbroiled Salmon Medallions on Bed of Sautéed Spinach, Dill Herb Sauce
Rice Pilaf; Roasted Red Potatoes

#Adults _____ X \$45.00 = \$ _____

Additional Prize Tickets

Prize (Singles) _____ X \$ 1.00 = \$ _____

Prize (Book 12 tickets) _____ X \$10.00 = \$ _____

Cash (singles) _____ X \$ 1.00 = \$ _____

Cash (Book 12 tickets) _____ X \$10.00 = \$ _____

Photographs

Extra: _____ X \$10.00 = \$ _____

YL: _____ X \$10.00 = \$ _____

USA-CA: _____ X \$10.00 = \$ _____

CW: _____ X \$10.00 = \$ _____

DATA: _____ X \$10.00 = \$ _____

Total Amount Enclosed: \$ _____

Mail Registration Form and Check to - Robert Devine (KC6AWX) [Home Phone 1-415-883-8980]

(Make check payable to "MARAC", 407 Alameda Del Prado, Novato, CA 94949

Hotel Reservations - MARAC (MAR)

Guest rooms have been set aside for your special event (\$89) One King Bed Standard Rooms:

Telephone: dial (800)holiday ask for a room from the above group room blogLink:

MARAC

Digital Happenings

DIGITAL HAPPENINGS #22

(May 2014)

By W0NAC ("Matt")

As you probably already know, for some time now I have been recommending Fldigi software. It is gratifying to note that Dave Freese, W1HKJ (who develops and distributes the Fast Light Digital Modem Application) was recently awarded the Technical Excellence Award at the 2014 Dayton Hamvention. The award goes on to state that "FLDIGI is an easy to use, free of charge, and open source computer program intended for Amateur Radio Digital Modes operation using a Personal Computer." I, for one, believe that Dave well deserves this recognition for developing such a great piece of software! If you don't currently have Fldigi in your "bag of tricks", you can download the latest version (3.21.82) at this link: <http://www.w1hkj.com/download.html>. There are many different programs available on this site (shown below), but I have circled (in red) the main ones you will need to get started in Fldigi using Microsoft Windows:

Download page: updated 1 May 2014

	Linux Binary	Windows Setup	OS X dmg	Puppy Pet (1)	Source	Help	Release Info
Fldigi / Flarq	fldigi-3.21.82.bin README	fldigi-3.21.82.setup	fldigi-3.21.82.dmg	fldigi-3.21 flarq-4.3	fldigi-3.21.82	Fldigi-Help Flarq Help	MainF
				pet libs	required for all fldigi applications		
		SHA256 checksums for various windows installers					
RigCat Xnals	xml archives						
Flamp	flamp-2.1.02.bin	flamp-2.1.02.setup	flamp-2.1.02.dmg	flamp	flamp-2.1.02	Flamp-Help.html Flamp-Help - adobe reader	
Flwrap	flwrap-1.3.4.bin	flwrap-1.3.4.setup	flwrap-1.3.4.dmg	flwrap	flwrap-1.3.4	Flwrap-Help	MainF
Flmsg	flmsg-2.0.3.bin	flmsg-2.0.3.setup	flmsg-2.0.3.dmg	flmsg	flmsg-2.0.3	Flmsg-Help Flmsg-Help-PDF	MainF
Flwkey	flwkey-1.1.6.bin	flwkey-1.1.6.setup	flwkey-1.1.6.dmg	flwkey	flwkey-1.1.6	Flwkey-Help	MainF
Flrig	flrig-1.3.15.bin	flrig-1.3.15.setup	flrig-1.3.15.dmg	flrig-1.3.15	flrig-1.3.15	flrig-help	MainF
Supported rigs							
Fllog	fllog-1.1.8.bin	fllog-1.1.8.setup	fllog-1.1.8.dmg	fllog-1.1.8	fllog-1.1.8	fllog-help	MainF
Flnet	flnet-7.0.1.bin	flnet-7.0.1.setup	flnet-7.0.1.dmg	flnet-7.0.1	flnet-7.0.1	net-help	
Kcat	kcat-1.1.02.bin	kcat-1.1.02.setup	kcat-1.1.02.dmg	kcat-1.1.02	kcat-1.1.02	kcat-help	

Sharon and I were planning a trip through Alaska on the way to the National Convention in July. We are sorry to report that we had to cancel the Alaska part of the trip. We are calling this our "TOO" trip because it was "TOO" far (9300 miles), "TOO" long (33 days), "TOO" expensive (Over \$4,000), and we both now have "TOO" many physical limitations. We will still be putting out a lot of digital counties on both the way to and our return from the National so watch for us on your waterfall. Exact plans will be given a bit later on both K3IMC's site and by email to digital folks.

Now, on to the main topic for this month.

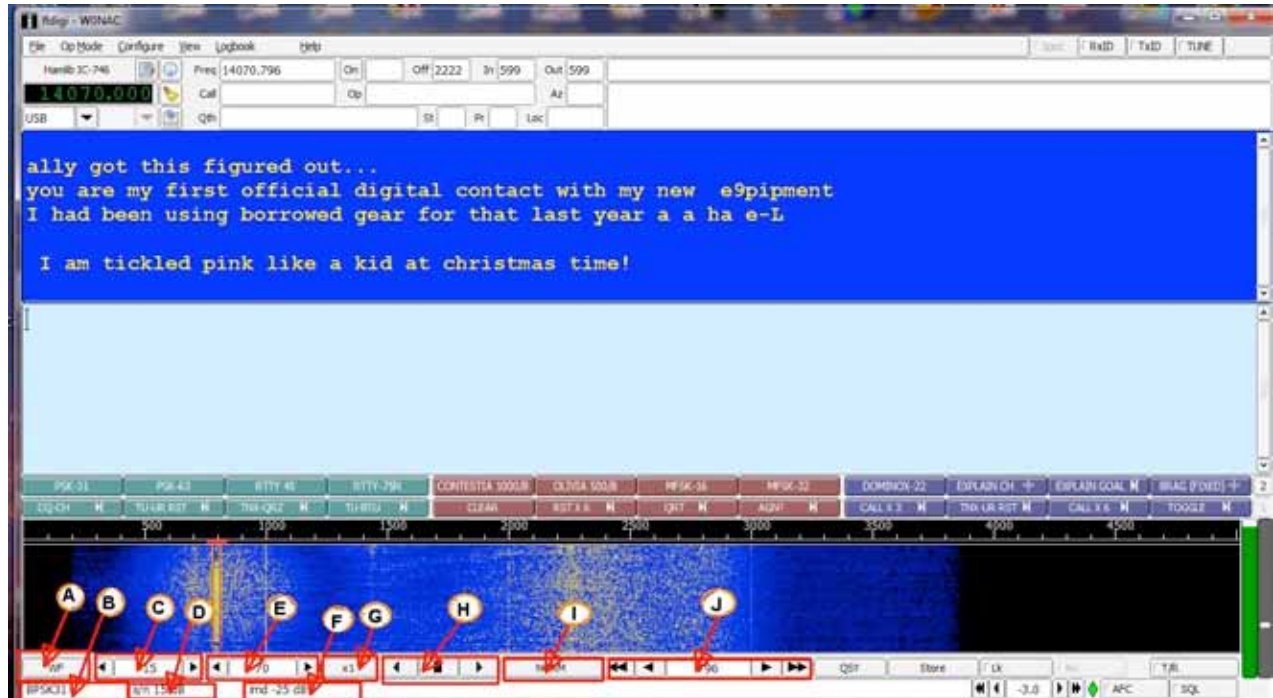
Less Well Known Features of Fldigi

Before I begin, let me repeat that the beauty of the Fldigi program is that you can successfully use it with mostly default settings and never need to understand or use all the features of what is a very complex

piece of software. But, for the more adventuresome people out there, the rich feature set of Fldigi will allow you to extract even higher performance from the software.

In this article I only have time and space to cover 10 of these features (from now on these will be called “buttons”). These 10 buttons only “scratch the surface”. I may be able to cover more in later articles, but I don’t want to deprive you of the pleasure of delving into the Fldigi Manual (LOL)!

You can find the location of Buttons (A – J) on the full Fldigi screen shown below:

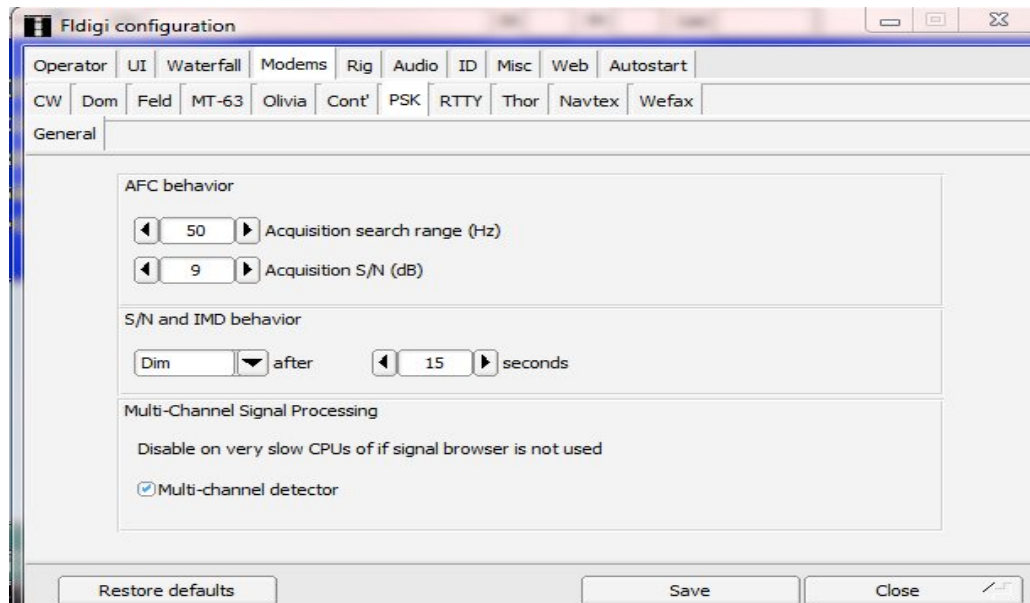


I will now discuss each button individually.

Button A – This button displays your current signal display mode and also allows you to “toggle” between three modes (Water Fall, Fast Fourier Transform [FFT], and Scope) by left mouse clicks. The default is the WF or Waterfall display.

Button B – This button displays your current operating mode & sub-mode, but has two other very useful functions. A left click on this button produces a pull-down list of sub-modes for BPSK which you can left click to immediately change to a different sub-mode.

A right click will take you directly into the detail Fldigi configuration screen for the mode you are using. For example, in the sample screen above, a right click on this button will immediately display the Fldigi configuration/Modems/PSK/General settings menu below:



Since this configuration selection automatically defaults to the correct menu screen for the mode you are currently using, this can save you a lot of time trying to “drill down” several layers in a rather complex Fldigi menu system. Pretty neat!

If operating in the CW mode, this button also displays the speed (WPM) of the received CW signal which is automatically calculated by the CW decoder.

Button C – This button is used to both display the current waterfall/spectrum display Upper Signal Level (dB) and to raise or lower this setting. Each left click on the arrow at the right end of the button will raise the level by 1 dB. Each left click on the arrow at the left end of the button will lower the level by 1 dB. That is all fine, but the question arises: “What is optimum setting for this control?” Since this control interacts with Button E, I will defer trying to answer this question until Button E is discussed later, but for now the default value of -10 dB works fine in most cases.

Button D – This Button has several different functions that change with the operating mode. For example, when using any PSK mode this button displays the signal to noise ratio (s/n) for the signal on which you are tuned. Actually, the PSK decoder estimates both the s/n and the intermodulation distortion (IMD), but displays only the s/n value on this button and the IMD on Button F.

For any RTTY mode this button displays the baud rate/frequency shift associated with the sub-mode. For example, when operating RTTY-45, this button will display “45.45/170”. If you are operating RTTY-75N, this button will display “75/170”. For most other digital modes (Contestia, Olivia, MFSK, and Dominox) this button will display either s/n or be blank. If you are operating in the CW mode, this button displays transmit speed (WPM) with arrows at both ends that can be used to adjust speed.

This button (and Button F) will automatically clear or dim after the number of seconds set in the Fldigi configuration / Modems / PSK / General settings menu shown above. Setting this time to 0 (zero) disables the clear/dim action.

Button E – This button displays the current setting for the total range over which signals will be displayed on the waterfall/spectrum display. This range is relative to the upper signal level controlled by Button C above. For example if you select -10 dB for Button C and 40 dB for Button E, the waterfall will display signals falling between -10 dB and -50 dB.

The only suggestion I can give to you on where these two controls should be set, is to start with the default values of -10/40 and experiment. Personally, I usually use settings of -10/70. For you to find your own optimum settings, just set your transceiver dial to 14.070 MHz and watch how PSK signals and noise change on the waterfall as you set different values. For example, if you set the upper level too low (high negative number), noise will increase because the floor value (range) moves down at the same time into the noise. If you set the range to a value that is too small, the minimum signal level ends up too high and weak signals disappear. It takes fairly large changes in the values for both of these controls to cause a significant difference in how signals are displayed, so don't be afraid of making bold changes. You can always return to earlier settings that worked better.

Button F – If you are operating in a PSK mode, this button displays the Intermodulation Distortion (IMD) value for the PSK signal you are tuned to. If not tuned to any signal the IMD number (if displayed) is meaningless. Also, the PSK decoder can only calculate an accurate IMD when the PSK signal being received is fairly strong and is in idle, i.e. not sending any characters. However, in my experience, IMD reports are still reasonably accurate even if the other station is sending information (not in idle) as long as their signal is fairly strong. Just keep in mind that all IMD values are an estimate only and that the PSK decoder is NOT a laboratory grade instrument. If someone wants a more accurate report on the quality of their signal, there are better ways of doing this, but they are too lengthy to explain here.

This button also changes function with operating mode. For RTTY it displays s/n. For most other digital modes it remains blank.

Button G – This button displays and controls your current waterfall scale. You can “toggle” the waterfall scale from X1 (Normal scale) to X2, to X4, and back to X1 with successive mouse clicks on this button. The X2 and X4 scales can be useful when using modes that require extremely accurate tuning to get solid decoding (like MFSK-32).

Button H – This button is basically a waterfall shift control. The 2 arrows at either end, when clicked, will shift the entire waterfall (including scale and any signals) up or down by 100 Hz for each mouse click when in X2 or X4 scale factor. If you are operating in the default scale factor of X1, these arrows appear to be disabled.

The function of the middle button is to “center the signal”. When you are tuned to a signal that is close to either end of your waterfall, you can automatically move the entire waterfall so that your signal is centered by clicking on the square in the center of this button. After the move, the signal will still show with the same offset frequency it had before. Things may appear more symmetrical to your eye, but nothing else is really changed. I haven't found this function to be very useful, but maybe you can. If you find a good use for this function that is not purely cosmetic, please let me know. Also, like the shift arrows, this function only seems to work when using the X2 and X4 scale factors.

Button I – This button is used to control the speed of your waterfall drop. This is a “rotary” type button which cycles through the options in circular fashion with each mouse click. The speeds available are SLOW, NORM, FAST, and PAUSE. Since the load on your computer's CPU is proportional to the speed selected, you may need to select SLOW or PAUSE if you have a slow CPU. In actual use I have yet to find a computer with a slow enough CPU to require any speed slower than NORM, but if you experience problems, you might try a slower speed setting to see if it helps.

Button J – This button both displays the offset frequency of any signal you are tuned to and allows you to make fine tuning corrections for those modes that require extremely accurate tuning (i.e. MFSK-16 and MFSK-32) before they will decode properly. The center part of this button simply displays (to 1 Hz accuracy) the offset frequency of your tuning bar. If you are accurately tuned to a signal, this would also correspond to the offset frequency of the signal. Most people (me included) tune on a signal by moving

the tuning bar with their mouse to center it on the signal trace as best you can before clicking with the mouse to lock it in place. Then we let the AFC function complete the final tuning. This is all well and good unless you are trying to tune very weak signals or signals transmitting with modes that don't support AFC or those few modes that are super critical on tuning before they will decode reliably. I wish I could give you a complete list of modes, etc. that are difficult to tune, but at this point I am aware of only MFSK-16 and MFSK-32 in common use by county hunters.

Trying to tune to either type MFSK signal (especially if they are weak to begin with) can be very difficult when using the mouse. Here is when the fine tuning functions of this button can be very helpful. There is a single arrow and a double arrow at each end of this button. You can mouse click on either single arrow to move the offset frequency up or down by 1 Hz per click. The double arrows will move the offset frequency up or down by 10 Hz per click. If you are using a true mouse, it is pretty easy to use these functions. However, if you are using a laptop in your vehicle and all you have is a touch pad, using all functions is slower and a bit more difficult. Also, don't leave the AFC function ON when trying this tuning technique as you will end up fighting each other. Please give this tuning method a try. After using it a few times, I'm sure you will like it.

Once more, I encourage you to dig into the Fldigi Manual (pdf version). This manual was last updated for Version 3.21.75 (Latest version is 3.21.82) and contains some incorrect information, but it is still well worth the effort! As we used to say in the military, "RTFM !!"

The updated Table 3 is given below:

Table 3 - Active Digital County Hunters Award Status

#	CALL	NAME	STATUS* (M,F,I)	USA - DIGITAL COUNTIES (of 3077)	(1 MODE)	(2 MODES)	FIVE MODE COUNTIES (3 MODES)	(4 MODES)	(5 MODES)	TOTAL	% 5-Mode Completed	LAST UPDATED
1	AA8R	Randy	F	1344	3077	3077	1461	576	203	8394	54.6%	5/24/2014
2	AC0B	Cliff	F	205	-	-	-	-	-	0	0.0%	12/10/2012
3	AD1C	Jim	F	-	-	-	-	-	-	0	0.0%	
4	K0DEQ	Bill	F	-	-	-	-	-	-	0	0.0%	
5	K0FG	Fred	F	188	3077	3013	187	20	6	6303	41.0%	4/14/2014
6	K0PVV	Rob	F	-	-	-	-	-	-	0	0.0%	
7	K0WJ	Lou	F	-	-	-	-	-	-	0	0.0%	
8	K4PBX	Jim	F	229	2948	214	72	50	15	3299	21.4%	5/23/2014
9	K5GE	Gene	F	26	1893	575	8	0	0	2476	16.1%	5/26/2013
10	K5SF	Dick	F	-	-	-	-	-	-	0	0.0%	
11	K5WAF	Bill	F	599	3044	?	?	?	?	3044	19.8%	5/2/2013
12	K7REL	Tom	F	-	-	-	-	-	-	0	0.0%	
13	K8QWY	Ed	F	-	-	-	-	-	-	0	0.0%	
14	K8ZZ	Ed	F	-	-	-	-	-	-	0	0.0%	
15	KA4RRU	Mike	M/F	975	3077	2939	944	49	1	7010	45.6%	1/10/2014
16	KA8JQP	Pamela	M/F	22	202	64	53	28	4	351	2.3%	9/12/2013
17	KC3X	Hollis	F	-	-	-	-	-	-	0	0.0%	
18	KC6AWX	Bob	F	450	3077	1592	264	59	14	5006	32.5%	5/7/2013
19	KC7YE	Jack	F	-	-	-	-	-	-	0	0.0%	
20	KD5YUK	Billv	F	-	-	-	-	-	-	0	0.0%	
21	KD7KST	Bill	M/F	1792	-	-	-	-	-	0	0.0%	9/30/2012
22	KF7PKL	Davis	F	379	879	211	48	15	1	1154	7.5%	10/9/2013
23	KG5RJ	Greg	F	706	3050	2125	646	268	105	6194	40.3%	5/22/2014
24	KM1C	Bill	F	-	-	-	-	-	-	0	0.0%	
25	KU4YM	Dave	F	86	2841	83	40	8	2	2974	19.3%	4/23/2014
26	KM6HB	Mark	F	714	3077	2936	694	87	1	6795	44.2%	2/3/2013
27	KW1DX	Dave	M/F	68	3077	991	65	50	24	4207	27.3%	4/26/2014
28	N0KV	Barry	M/F	502	3077	3031	2351	360	71	8890	57.8%	4/29/2014
29	N0LXJ	Sharon	M/F	1373	3077	2274	1232	506	257	7346	47.7%	5/29/2014
30	N1API	Al	F	751	3077	2358	691	465	323	6914	44.9%	5/25/2014
31	N4JT	Jim	M/F	911	3077	3067	919	417	296	7776	50.5%	5/18/2014
32	N5MLP	Ron	M/F	391	3077	409	54	37	9	3586	23.3%	5/19/2013
33	N6PDB	Dennis	M/F	942	3077	2936	1161	842	674	8690	56.5%	5/27/2014
34	N8CIJ	Dick	F	782	3077	3034	775	400	297	7583	49.3%	5/25/2014
35	N8HAM	Jim	F	0	3077	0	0	0	0	3077	20.0%	4/2/2013
36	N9WNN	Steve	F	0	2180	0	0	0	0	2180	14.2%	2/24/2013
37	NA8W	Darl	F/M	579	3022	852	381	212	99	4566	29.7%	9/12/2013
38	NF0N	Mike	F	900	3077	3077	1091	283	127	7655	49.8%	4/18/2014
39	NN9K	Pete	F	816	3077	859	78	1	0	4015	26.1%	3/23/2012
40	NT2A	Gene	F	-	-	-	-	-	-	0	0.0%	
41	NU4C	Paul	F	-	-	-	-	-	-	0	0.0%	
42	NW6S	Jim	F	784	3077	3077	805	114	79	7152	46.5%	5/6/2014
43	NX4W	Lloyd	M/F	1185	3077	1327	493	338	103	5338	34.7%	4/26/2014
44	W0NAC	Matt	M/F	1843	3077	2849	2019	1142	490	9577	62.2%	5/29/2014
45	W3DLM	Don	F	359	3077	2390	298	101	55	5921	38.5%	10/12/2013
46	W3ZUH	Dick	F	5	3077	2048	11	2	0	5138	33.4%	12/4/2013
47	W4HI	Gary	F	-	-	-	-	-	-	0	0.0%	
48	W4SIG	Kerrv	F	-	-	-	-	-	-	0	0.0%	
49	W4YDY	Dave	F	1000	3077	3077	1149	495	300	8098	52.6%	4/22/2014
50	W5QP	Rick	M/F	339	3077	2721	366	205	167	6536	42.5%	5/20/2014
51	W6RK	Risto	F	-	-	-	-	-	-	0	0.0%	
52	W6RLL	Joe	F	-	-	-	-	-	-	0	0.0%	
53	W7FEN	Larry	F	25	3077	2975	32	1	0	6085	39.6%	10/3/2013
54	W7IN	Larry	F	-	-	-	-	-	-	0	0.0%	
55	W7QQ	Bill	M/F	-	-	-	-	-	-	0	0.0%	
56	W9JR	Rich	F	90	3077	1674	44	0	0	4795	31.2%	10/31/2012
57	W9SUQ	Larry	F	-	-	-	-	-	-	0	0.0%	
58	WA4EEZ	Leslie	F	1086	3077	1742	699	234	31	5783	37.6%	1/6/2014
59	WA4UNS	Doug	F	-	-	-	-	-	-	0	0.0%	
60	WA6OCV	Susan	M/F	328	3077	328	320	130	10	3865	25.1%	3/28/2013
61	WA7ETH	Ed	F	194	1924	405	35	3	0	2367	15.4%	5/27/2014
62	WA7JHO	Sterling	F	-	-	-	-	-	-	0	0.0%	
63	WB0M	Jeff	F	-	-	-	-	-	-	0	0.0%	
64	WB2ABD	Paul	F	-	-	-	-	-	-	0	0.0%	
65	WD4OIN	Jack	F	1074	3077	3070	1084	507	254	7992	51.9%	5/18/2014
66	WQ7A	Terrv	F	201	3077	3028	206	132	112	6555	42.6%	8/24/2013
67	WY4D	Ben	F	281	3077	303	36	15	9	3440	22.4%	2/11/2014

How To Get Your 5 – Mode Statistics Updated:

Several past Digital Happenings articles have given detailed instructions on a new and easy way to update your digital statistics for Table 3 by using a small program called "Digital Report Utility". This new program will create a report for you showing your progress for both the **USA – Digital** and the **5 – Mode Awards** and email it to W0NAC. Instead of repeating these instructions every month I have included them in a Microsoft Word document that you can download by clicking on the following link: <https://dl.dropboxusercontent.com/u/26171574/Happenings/5%20Mode%20Update.doc>

Other possible topics for future months include (in no particular order):

"More Lesser Well Known Features of Fldigi"
"How to Log Your Digital Contacts in Logger"
"Macros – Revisited"
"New Digital Awards?"
"Digital Software Installation – Revisited"
"Award Difficulty Index"

If anyone has a story or tip that you wish to contribute, I will certainly try to include it. Short stories describing your experiences/joys/frustrations/etc. in getting started in digital ops would be especially welcome. Summaries of any digital trips you make (or have made in the past) would also be good. I look forward to hearing from you. Don't be shy!

Please email me with your comments/suggestions at w0nac@comcast.net and don't forget to send your updated status for the **USA – Digital** and **5 - Mode Awards** so I can update the Active Digital County Hunters Award Status list again next month.

73's and we hope to see you at the digital meeting in Visalia, CA in July. If not, on our waterfall again real soon!

Matt – W0NAC



Birthdays

Roadrunner - Birthdays	
Call	Birthday Date
K0GSV	Jun - 01
W4AMW	Jun - 01
KG8N	Jun - 01
K5IID	Jun - 01
KE8ST	Jun - 01
W8QZ	Jun - 01
KB7YD	Jun - 01
NS6X	Jun - 01
K5OT	Jun - 02
W1MHD	Jun - 02
NC4F	Jun - 02
NF4A	Jun - 02
KC2CK	Jun - 03
KJ4EJ	Jun - 03
WA0RKQ	Jun - 03
N2SU	Jun - 03
W2IN	Jun - 03
N9DYE	Jun - 03
KJ4SLY	Jun - 03
KG0AY	Jun - 03
KE0UQ	Jun - 04
K5MSU	Jun - 04
ND7J	Jun - 04
N9GN	Jun - 04
K5NRA	Jun - 04
KC4QWM	Jun - 04
W6UI	Jun - 04
AE4JG	Jun - 04
K1SO	Jun - 04
K1MIJ	Jun - 05
KA1ID	Jun - 05
K4TT	Jun - 05
N6QA	Jun - 05
K4PBX	Jun - 05
W9AJ	Jun - 05
AA9RE	Jun - 05
K0AYO	Jun - 05

Roadrunner - Birthdays	
Call	Birthday Date
WB0TEV	Jun - 05
AA0TT	Jun - 05
W8MP	Jun - 05
K9JF	Jun - 05
AJ4QP	Jun - 06
N7TAX	Jun - 06
WJ8B	Jun - 06
KA5A	Jun - 06
N5SMQ	Jun - 06
WA9WGJ	Jun - 07
K7WC	Jun - 07
K4YP	Jun - 07
W8LS	Jun - 07
WB3AXC	Jun - 08
K9EN	Jun - 08
W7LY	Jun - 08
AA9ID	Jun - 08
VK3MW	Jun - 09
W0XXX	Jun - 09
K2ETA	Jun - 10
WB9ELH	Jun - 10
WA0LJM	Jun - 10
W8RCL	Jun - 11
NA8W	Jun - 11
K1XG	Jun - 11
N6NRZ	Jun - 11
N5VMW	Jun - 11
WD6CKT	Jun - 11
K8JQ	Jun - 12
WB0TRG	Jun - 12
K4BU	Jun - 12
W6IYS	Jun - 12
KC5QCB	Jun - 12
WA5RD	Jun - 12
W3BZJ	Jun - 12
WA0ZBK	Jun - 12
NE8M	Jun - 13

Roadrunner - Birthdays	
Call	Birthday Date
N4OA	Jun - 13
N7IGX	Jun - 13
W9ACE	Jun - 13
WA4CHI	Jun - 13
K1YE	Jun - 14
KC3YT	Jun - 14
W4TET	Jun - 14
K4DI	Jun - 14
K5GUY	Jun - 15
KD7ADH	Jun - 15
KI7AI	Jun - 15
W5LXG	Jun - 15
KB0BA	Jun - 15
N5QS	Jun - 15
N5WR	Jun - 15
W0ZQ	Jun - 15
N4ILQ	Jun - 16
AE5B	Jun - 16
KK6BB	Jun - 16
KC2CD	Jun - 16
NI7B	Jun - 16
WI9C	Jun - 16
WA9OUE	Jun - 16
W6OUL	Jun - 17
NT4W	Jun - 17
K0ODF	Jun - 17
K6BWZ	Jun - 17
W6TMD	Jun - 17
W5RQ	Jun - 18
W4DOS	Jun - 18
KD9Q	Jun - 18
N3MRA	Jun - 18
W4LJM	Jun - 18
WV9D	Jun - 18
KD6HWD	Jun - 18
W0HXB	Jun - 18
N2BM	Jun - 19

Roadrunner - Birthdays

Call	Birthday Date
NU4N	Jun - 19
N9MBL	Jun - 19
KA2K	Jun - 19
N3CI	Jun - 20
KD5YUK	Jun - 20
WB0TVL	Jun - 20
K0NZ	Jun - 20
N4EED	Jun - 20
K7WUR	Jun - 20
G3NDC	Jun - 21
KI7MK	Jun - 21
KE6GJ	Jun - 21
W4OGG	Jun - 22
NV6L	Jun - 22
N8ACL	Jun - 22
NJ4K	Jun - 22
KI6PG	Jun - 22
K0LG	Jun - 23
WD8OWA	Jun - 23
KE7GI	Jun - 23
KK8ZZ	Jun - 23
WV1U	Jun - 23
K0DCL	Jun - 23
N7IV	Jun - 24
W9NII	Jun - 24
N9FR	Jun - 24
N4CD	Jun - 24
KB7PI	Jun - 24
W4EHT	Jun - 25
KB6UF	Jun - 25
KB4QCE	Jun - 26
KCOMB	Jun - 26
KC9GW	Jun - 26
WB9OOE	Jun - 27
W4JVN	Jun - 27
K5VFW	Jun - 27
W9CNG	Jun - 27

Roadrunner - Birthdays

Call	Birthday Date
KB9VQM	Jun - 27
KG5UZ	Jun - 28
KE5RJT	Jun - 28
WA0LPA	Jun - 28
KD9ZP	Jun - 29
N6VZ	Jun - 29
KD2EC	Jun - 29
K7IOO	Jun - 29
K8SJ	Jun - 30
WD5RS	Jun - 30
W0LRH	Jun - 30
AL7RQ	Jun - 30
W2DWR	Jun - 30
WD5JGS	Jun - 30
W9MSE	Jun - 30



Awards

Awards Issued For May			
Call	Date	Award	Number
W4SIG	5/15/2014	DX Mobile	# 59 Countries
AB7RW	5/11/2014	Gemini - Jack Scroggins (W0SJE)	# 150 2nd Time Holders
KC3X	5/1/2014	YL Mobile	# 3000 Counties
KC3X	5/1/2014	YL-OM Mobile	# 3008 Counties
W0EAR	5/17/2014	USA-PA - K	# 28
VE1WT	5/7/2014	USA-CW	# 135
N9STL	5/14/2014	USA-PA - A	# 6
VA3XOV	4/27/2014	USA-CW II	# 32
W0GXQ	5/7/2014	BINGO III	# 30
N9QS	5/23/2014	USA - Single Band	# 23 - 20 Meters - 3077 Counties
N9QS	5/22/2014	Call Combo 1 x 3	# 13
W4SIG	5/26/2014	USA - Single Band	# 24 - 20 Meters - 3077 Counties
N8OYY	5/12/2014	Worked all Counties - 2nd Time	# 426
VA3XOV	4/27/2014	Worked all Counties - 2nd Time	# 425

Roadrunner Issued For May				
Call	Date	Count	Award	Number
NX0X	5/15/2014	Last County Count 100	Last County Count 100	# 244
KB6UF	5/15/2014	Last County Count 1200	Last County Count 1200	# 4
W4SIG	5/15/2014	Last County Count 225	Last County Count 225	# 93
WQ7A	5/15/2014	Last County Count 525	Last County Count 525	# 31
AB7NK	5/14/2014	Last County Count 100	Last County Count 100	# 243
W0GXQ	5/15/2014	Last County Count 775	Last County Count 775	# 17
N0XYL	5/29/2014	Last County Count 250	Last County Count 250	# 83
N2OO	5/29/2014	Last County Count 25	Last County Count 25	# 512
NM2L	5/26/2014	Last County Count 125	Last County Count 125	# 182
K3IMC	5/26/2014	Last County Count 450	Last County Count 450	# 40
AB7NK	5/26/2014	Last County Count 125	Last County Count 125	# 183
N8KIE	5/26/2014	Last County Count 875	Last County Count 875	# 10



Cruise (from Joyce WB9NUL)

*My Pin Money Travel, LLC Announces
Its Fourth Amateur Radio Cruise*

MPMT'S HAM RADIO CRUISE

4

On the Carnival Magic April 19, 2015 for 7 Days

**The perfect gift for the “hard to buy for” person.
Great vacation with family and friends**

Planned activities onboard include seminars conducted during days at sea, working Maritime Mobile on two ship installed HF stations with DX for all licensed amateurs and all the fun of a Carnival Cruise! Special arrangements have been made with Carnival Cruise Lines for two HF operating stations and antennas.

Cruise from Galveston, Tx. To Belize, plus
Roatan and Cozumel returning to Galveston.



**Only 48 cabins reserved. Book quickly - don't miss the great
prices & extras!***

All prices are double occupancy and include government taxes and fees. You may book an Inside Cabin or a Balcony Cabin as part of our reserved group price until November 20, 2014. After that date, prices are subject to availability.

(Ocean View, Cove Balcony and Suites available by special arrangements.)

DEPOSIT of \$250 PER PERSON DUE AT BOOKING in order to assign your stateroom.

*Each guaranteed stateroom also receives a \$25 onboard credit, bottle of wine and 2 tote bags.

TRAVEL INSURANCE IS OPTIONAL, BUT HIGHLY RECOMMENDED.

Cruise through Debbie Rumfield, N5DSR with My Pin Money Travel, LLC (MPMT) who can be reached at mypinmoneytravel@yahoo.com or by telephone at 832-656-0731.

This event is organized by Lance Rumfield, WD5X, in an effort to offer amateurs the ability to enjoy the rare opportunity of operating at sea while participating in a terrific vacation.

**Carnival reserves the right to add a fuel surcharge of \$9 per person per day if oil goes to \$70/barrel

NOTE: U.S. Customs recommend all cruise passengers possess a valid U.S. passport in order to board the ship!!!!!!

Operating Details as planned:

Two Kenwood TS-480 HX (or similar) HF mobile transceivers with two screwdriver antennas will be installed on the ship's aft railing. Stations and antennas will be on opposite sides of the ship at the stern. Bring your own keyers/phones/computers /interfaces/ etc!!! (Sorry - no HF operation or external antennas of any kind will be allowed from individual staterooms, balconies, or public areas.

Houston Amateur Radio Supply has again graciously agreed to be our sponsor !!! **Thanks Dave!!!**

Personal Handi-Talkies may be used on the Carnival Magic while at sea!!!

Special permission to operate onboard the Carnival Magic has been arranged as long as proper licensing is obtained and formal agreements between Carnival and My Pin Money Travel are acknowledged and followed.

Amateur operation will be while in U.S. or international waters.

Each participating amateur will receive a copy of the authorization to operate as signed by the Captain of the Magic, Technical Coordinator, Travel Agent and the amateur!

Licensing Requirements:

If you wish to operate a station or handheld while on board, copies of the following documents must be submitted to Debbie as soon as possible as it may take up to 90 days to acquire all required documents and we must have documents submitted to Carnival before final guaranteed selling date:

- 1) Copy of valid U.S. amateur license
- 2) Confirmation of completed IARP application. Please send your paperwork, photo and monies to the ARRL immediately as this process takes time. The ARRL will forward a batch of the permits to Debbie shortly before sailing. She will forward you a copy of your permit and provide you the original IARP once on the ship.

Please consider joining us in 2015. We had a great time in 2011, 2013 and 2014 and look forward to another great event!!!!

Note: Only licensed amateurs who are participants of this limited opportunity group event will be allowed to operate amateur equipment while on the Carnival Magic.

Why Attend?

A Case for Attending MARAC Conventions
Kerry, W4SIG

I recently returned from the Michigan Mini and want to thank Joe, W8TVT, and Ed, K8ZZ for all their hard work and hospitality to ensure everyone had a great time. It was so good to meet so many CHers for the first time. I believe there were about 65 folks in attendance! I now have a better feel for who I am sending all those signal reports to along the road! I can't express how glad I am that I made this trip. We all spend many hours behind a mic or key yet it is a shame that many times we never get an "eyeball" qso with those we have befriended on the county hunter nets. While there I learned of some of the varied artistic skills that fellow CHers have like K8EMS, some tall tales from WY8I, and stories of Hawaii from N8KIE. I got a jump start on remote operating from NN9K and W8JJ. W8FNW passed out some great gifts. I had an opportunity to thank some of the great mobiles such as KB0BA/N0XYL and AB7NK/K7SEN for all the miles they drive and the counties they put out. The conversations in the hospitality room could have gone on for days. The ladies had a great time as well. The banquet was a great way to close out the convention.

Of course another highlight was to wander the parking lot to see the actual mobile "porcupines" that traverse our country. It is interesting to see all the inventive antenna mounts and neat rig setups that our fellow members utilize. I learned a few tricks that will come in handy the next time I re-invent my setup.

I was very active on the CW county hunter nets in my high school thru college days from 1979 thru the late 1980's. I do regret only making one mini (the MMM) during this time. Many of those folks with whom I exchanged RSTs hundreds of times are either no longer with us or not active on the nets. I sure miss not knowing them better.

Do yourself a favor and attend a convention the next time you have a chance. The drive and time spent is worth the camaraderie and memories you will create. You will be glad you did!

Kerry W4SIG

**Treasurer's Report (WONAC)
April 2014***

Beginning Account Balances Mar 31, 2014 **\$36,703.06**

April Income:

Money Market Interest	\$2.81	
Awards Manager Income	\$686.00	#
Membership Income	\$797.87	
Logger distribution	\$45.00	
Total Income:	<u>\$1,531.68</u>	

April Expenses:

Awards Manager Expenses	\$135.98	#
Purchase New Computer For MARAC Awards	\$1,349.03	
Office Expenses (Postage)	\$19.99	
Total Expenses:	<u>\$1,505.00</u>	

April Net Income Less Expenses **\$26.68**

New Total Balance ALL Accounts: **\$36,729.74**

Checking Account Balance	<u>\$5,681.66</u>	
Money Market Account Balance	<u>\$31,048.08</u>	
Total:	\$36,729.74	

Note:

The following monies are not included in the account balances above:

Awards Manager's Funds	\$1,500.00	
2014 National Convention Seed Monies	\$4,000.00	(Some will be reimbursed later)

* Includes April Transactions through 5/06/2014

March & April Award Manager Income & Expenses (combined)



**Awards Manager's Report
May 31, 2014**

Funds Balance April 30, 2014			\$1,500.00
Income	\$ 485.00		
		<u>\$ 485.00</u>	
Expenses:			
Office supplies	\$ 0.00		
Plaque Suppliers	\$ 248.00		
Postage	\$ 0.00		
		<u>\$ 248.00</u>	
Sent to Treasurer			\$ 485.00
Reimbursement received from Treasurer			\$ 248.00
Funds Balance May 31, 2014			\$1500.00



Calendar

~ June 2014 ~						
Sun	Mon	Tue	Wed	Thu	Fri	Sa
1	2	3	4	5	6	7 10-10 DIGI AL QP
8	9	10	11	12	13	14 WV QP
15	16	17	18	19	20	21 SMIRK QP STRT KEY SPRINT KIDS DAY
22	23 RUN4BACON	24	25	26	27	28 FIELD DAY
29	30	Notes: ONLY START SHOWN. CLICK ON EVENT TO GO TO WEB SITE NATIONAL NEXT MONTH!				



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 (KV7N)

Ed Palagyi (KN4Y)

“Matt” Matthew (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, (SK)

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

South Central Director: Barry Mitchell, N0KV, 12200 Boothill Dr, Parker, CO 80138, 303-842-5635, n0kv@arrl.net

Pacific Director: Robert T. Devine, KC6AWX, 407 Alameda Del Prado, Novato, CA 94949-6302, 415-883-8980, kc6awx@marac.org

Southeast Director: Kerry Long, W4SIG, 1385 Auburn Woods Dr, Collierville TN 38017, 901-331-1881, kerrylong@comcast.net

Immediate Past President: Joyce Boothe, WB9NUL, 21175 FM2556, Santa Rosa, TX 78593 1-956-202-3373, joycenul@aol.com

Awards Manager: Robert T. Devine, KC6AWX, 407 Alameda Del Prado, Novato, CA 94949-6302, 1-415-883-8980, kc6awx@marac.org

Appointees

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Sunshine Coordinator: Pat Reiner, KM6QF, 16931 Aldon Rd, Encino, CA, 91436, 213-999-0100, lovedoxies@aol.com

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Election Coordinator: Kent Reinke, KV7N, 1826 East 4500 North, Buhl ID 83316, 208-543-6083, kr@gci.net

MARAC General Counsel: David Splitt, KE3VV, 6111 Utah Avenue NW Washington, D.C. 20015-2461, 1-202-362-3355, ke3vv@marac.org

Computer Data Manager: Gene A Olig Sr, KD9ZP, W 4325 4th St Rd, Fond du Lac, WI 54937, 920-923-0130, kd9zp@att.net

Dues with an Electronic copy of the Newsletter copy are \$14.00 per year, check or money order; \$14.75 via PayPal.