



THE COUNTY LINE **ROADRUNNER**

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Riding the County Lion

Dave – KE3VV

The County Lion is still roaring with laughter over the April 1st column and the spoof on the impending demise of the Alaskan Judicial Districts. The Big Green Dragon reminded us that the best April Fools gags have just enough flavor of truth to be intellectually palatable, and this one will be hard to match. For those few who contacted K1BV of CQ Magazine for comment or confirmation, many thanks to Ted for going along with the scenario. He had been warned in advance of the column and (especially since CQ publishes an April Fools story) was only too willing to play along and just say that I had “contacted” CQ about the potential crisis in the future of Alaskan county hunting. Thanks also to the numerous emails and on-air comments about the column. To those who asked whether to watch for something similar next year, I can only say “stay tuned” and we shall see...

Anyway, the crisis is resolved. There is no real possibility that the Feds will eliminate the Alaskan Judicial Districts in the near future or that CQ or MARAC will revert to the 19 Alaskan boroughs for USA-CA credit. It is already getting tougher to work Alaska for many due to the rising cost of travel and the iffy propagation due to the paltry magnetic activity of our Sun. It looks like we are in for a long drought of sunspot activity, and even when there are a lot of spots, the magnetic polarity mixing (+/-) of the spots, as well as the lack of intensity in the overall solar magnetic fields, there is not much in the way of exciting news on the propagation front. We shall see what the future brings, but the weak sunspot cycles could be repeated in our immediate future – even to the extent of another “Maunder Minimum.”

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I hope everyone is getting ready for the national convention in Visalia. My train reservations are made and the rental car secured. Just trying to decide on which side trips to enjoy – wine country (one of my kid’s friends – the son of a long-time neighbor and friend – is a VP with Gallo, so a private tour is possible) is one option. A long drive down the coast from San Francisco is also a great ride, with some great art galleries, restaurants, and ocean views on the Highway 1 drive along the Pacific shore. Getting from the coast across the mountains to the East and Visalia is also a fun drive across the coastal mountain range. The County Lion also reminds me that we could always be front row center for the “Big One” and watch parts of the West Coast slide into the sea. Lovely thought! We will have to keep a close watch on the Earth-facing coronal holes on the Sun, which are a proven indicator of increased seismic activity on our fair planet.

We also need to be thinking about future national conventions. While we are all lined up for the 2015 eyeball in Florida, the 2016 convention is still up for grabs. Those of you who want a more central USA location need to get together and volunteer to host a suitable venue in Middle America. It is a lot less work and a lot more fun that you might think – especially with many former hosts to help you with the planning and arrangements. Please contact Past President Joyce Boothe (who is heading up the National Convention Search and Hospitality Room Stocking Committee) or me, one of the MARAC officers, or your District Director if you are thinking about it – any one of us can answer all your questions or point you in the right direction.

We are also planning the agenda for the annual meeting of the MARAC Board of Directors. There is not a lot on the plate for the meeting yet, so if you have a topic that you want addressed, please let me know as soon as possible so we can put it on the agenda and do any prep work that will be needed to take action at the meeting. I look forward to seeing a bunch of you in Visalia!

The County Lion and Big Green Dragon won’t be making the cross country trip to Visalia – Amtrak won’t allow either lions or dragons on board and the Ringling Brothers, Barnum & Bailey circus train isn’t headed that way (and the County Lion says he won’t ride anywhere with elephants anyway). Right now it is time to head outside and enjoy a bit of this waaaay overdue Spring-like weather. I am definitely putting away my snow blower and heavy shoes for a few months. So 73 and good hunting from the Prez, the Lion, and the Dragon for now.



Dateline CW

Ed, KN4Y

I hear America singing, it is the CW county hunter's song.

I am listening to the county hunters CW net as I rest the old body from the rigors of operating mobile in the Florida and Georgia QSO parties. I hear Gator's four-by-four slide to a stop at the recycled railroad tie, he gets the mail and comes into the radio shack. 'Greetings Dude, looks like you got another operating certificate.' Gator hands me a latte and a bacon coated éclair. I think to myself should I eat this éclair, but then no one ever listens to me so why should I.

Gator opens the large white envelope, "This is a certificate for you as top single operator in Florida in last years Michigan QSO party. You must have been the only entry from Florida." I have learned to ignore Gator's sarcasm, I hand Gator a memory stick, "Here be useful and see how I did in the Mississippi and Missouri QSO parties." I wash down the last bite of my éclair with the hot latte. Gator turns toward me, "You got 15 no-star and two counties on 15-meters in the Missouri QSO party and one 1x2 call and one county on 80-meters in the Mississippi QSO party and worked that Norm Dude one time. I bet you fell asleep again." "No Gator, I had a bowling tournament and missed prime operating time." I hand Gator another memory stick, "I am curious to see how we did as a rover in the Georgia QSO party." I sip my latte and contemplate the demise of another éclair.

We would be driving on the back roads of Georgia in Redneck countries so Gator had taken the van to Bubba's Detail and Window Tinting Emporium to have red stains down both sides of the van to look like chewing tobacco spit stains. A clean van would draw unwanted attention. Gator starts grinning, "Dude you and I on Saturday traveled 530 miles and put out 17 counties You alone on Sunday traveled 290 miles and put out 7 counties." "A moving Gator gets the Wildebeest" "Cut the BS and get the statistics for the county hunters."

The printer starts and stops., I take the printout and read the list of the counties ran and the number of QSO,s worked: Bacon (31), Baker (36), Brantly (34), Brooks (23), Calhoun (36), Chariton (24), Clay (42), Clinch (23), Coffee (41), Colquitt (29), Decatur (35), Early (32), Echols (20), Grady (12), Irwin (31), Lanier (6), Lowndes (38), Mitchell (21), Pierce (35), Seminole (33), Thomas (51), Turner (32), Ware (40) and Worth (33). "Gator I wonder how many QSO's we would have if the bands had been QSO party friendly." "I need to go with you on Sunday so you would be more efficient. This year we traveled 819 miles and made 738 QSO's a little less than last year. You got one new 1x3 call and two mobile to mobile contacts." "Who were the mobiles?" Gator sips his latte, "It was that Dude Norm, W3DYA and Jerry, W0GXQ." I point to the desk."I received several MRC's after the Georgia QSO party that you need to check. I will get them signed and back into the mail system ASAP."

"Now that you mention mobiles what did I do in the Michigan, Nebraska and Ontario QSO parties." Gator hands me another not as hot latte and does computer gyrations, "Dude in the Michigan QSO party you got 11 no-star contacts and worked the mobiles Jim, K8IR, Tad, W8UE, Ed, W8ZZ and the mad river, K8MAD. I wonder if that is like a Cross Creek?' Sometimes Gator's humor leaves much to be desired. "You only worked one no-star, one 'A' prefix and one mobile Alan, KO7X, in the Nebraska QSO party." "Yes, I did not hear much CW activity from Nebraska." "Don't interrupt Dude, and you made 52 QSO's in the Ontario QSO party." "They do CW on the half hour and I listened on the hour."

“That makes no sense.” “I know, now calculate the Florida QSO party statistics.”

I sip my latte when Gator’s cell phone ding-a-lings. “Sorry Dude, I will get the MRC’s and the Florida QSOL party next trip, I have to run, a propane tank blew up.” He is gone like a grasshopper setting on a bar counter. Did I hear him yell, “I like grapefruit and grapes instead of biscuits and gravy?” The printer starts and stops. I get the printout and read the list of stations heard on the county hunters CW frequencies: AF3X, AI5P, K0DEQ, K2HVN, K4YT, K8ZZ, KA3DRO, KA4RRU, KA9JAC, KB0BA, KB6UF, KB9YVT, WC7YE, KN4Y, KO7X, KV7N, N0KV, N2JNE, N3RC, N6POB, N9JF, N9QS, NF0N, NM2L, W0GXQ, W3CX, W3DYA, W4AN, W4SIG, W5IL, W8GEJ, W8UE, W9MSE, and WA6DCV.

It starts getting hot in May so enjoy the cool 7th area, Indiana, and the New England QSO parties. I plan to operate in the 10-10 CW contest and hope to work you. There is also the Nevada Mustang Roundup which I guess is how many Fords you can work. Another fun CW activity is the His Majesty King of Spain contest. Finishing up the month is the CQ World Wide WPX contest. I tried to find out what transpired at the Michigan Mni and was told what happened at the Michigan mini stays in Michigan. Nap time.



History Happens

Gary, K4EXT

It feels like there weren't many new County Sign pictures sent to me over the past month, but that's not really the case. Maybe I have been napping too much ... or maybe not napping enough ... I dunno.

Lowell, KB0BA and Sandra, N0XYL sent in county line pics from Minnesota, Iowa, and Illinois. Fortunately, for all of us, they don't stay home very much! Ed, K8QWY sent in new county pics from Ohio again ... Ray, WB0PYF sent in 3 of the last 5 needed to complete Missouri ... Georgia did well this past month with pics from Ron, KA3DRO and the GA QSO Party team of Dave, KW4M and Sandy, WB4EVH.

Other picture contributors for the past month included Percy, KA1JPR in The Sunshine State of Florida ... Jerry, W0GXQ working on his CW prowess while mobile in South Dakota ... Barry, N0KV and Pat, N0DXE running around Texas ... Hollis, KC3X out-n-about in North Carolina ... Norm, W3DYA contesting in Mississippi ... Jon, W0ZQ in Kansas ... Jack, K0MAF in Florida and Mississippi ... John, KD8MQ in Ohio ... and Charles, KV4DX in Kentucky.

Whew - THANKS to all! Please feel free to check out the current collection of pictures and information by visiting the CH History/Archive website at the following Internet address:

<http://www.CHarchive.com>

I really enjoy seeing pictures of not-so-ordinary county signs. The Polk County, Florida "sign" sent in by Percy, KA1JPR is a picturesque and well-maintained example. The oranges make me thirsty too ... obviously a subliminal county line display!



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 (Tour below is limited to Max of 30 People)

Sequoia National Park – Depart 8:00/9:00 AM (2 buses 15 each) #Adults X \$35.00 = \$

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

DIGITAL HAPPENINGS #21

(April 2014)

By W0NAC ("Matt")

It's very gratifying to see new people joining in the fun and challenge of operating digital. New to digital are the mobile team of KG5UZ/KJ5PQ (Mike & Cheryl) who have been putting out many counties all over Texas on 3-4 digital modes. Also new this month is KC3X (Hollis) who just got his fixed station set up for digital ops and is now "going great guns!". Also heard during April on digital were WB0TEV (Paul) who put out several TX counties on RTTY, KW1DX (Dave) in ME, and WY7FD (Dwayne - Not a County Hunter) on RTTY in Crook, WY.

Then, there was that monumental trip just completed by N6PDB/WA6OCV (Dennis & Susan) where they drove their RV all the way from CA to GA and back to CA putting out close to 250 counties on 3 - 4 digital modes. Their trip was a real boon to many county hunters and filled a lot of holes for the **USA - Digital Award** and the **5 - Mode award**! They deserve many kudos from all of us for their unselfish efforts on our behalf! Dennis reports that he and Susan had a great time on the trip and were especially grateful to N1API, W4YDY, K5GE, and WB2ABD for sticking with them throughout the entire trip making sure that they completed Master Platinum transmitted counties and 3 new modes in all 250 counties.

Sharon and I are planning a trip through Alaska on the way to the National Convention in July. While there, we hope to put out all 4 Judicial Districts on SSB, CW and at least 4 Digital Modes. If our plans work out OK, we will publish the details for the trip on the K3IMC site and by email.

Now, on to the main topic for this month.

Compatibility Issues When Making RTTY Contacts:

First Some History

RTTY is the 2nd oldest digital mode in use today (the oldest is CW). Landline teleprinter operation began in 1849 between Philadelphia and New York City. In 1874, a man named Emile Baudot designed the five unit code (Baudot code) that is still in use today. Radioteletype (RTTY) was first successfully tested by the Navy between an airplane and a ground station in 1922. Commercial RTTY systems were in active service between San Francisco and Honolulu as early as 1932. The US Military used RTTY from the 1930's and expanded this usage during World War II. Almost all of these RTTY systems used mechanical teleprinters until the 1980's when they were replaced by computers running teleprinter emulation software.

Amateur use of RTTY began after World War II when obsolete, but usable Teletype Model 26 equipment became available from commercial operators. The first two-way amateur radioteletype QSO of record took place in May 1946 between W2AUF and W2BFD. The first RTTY contest ("RTTY Sweepstakes Contest") took place in November 1953. The ARRL started issuing WAC RTTY certificates in 1969 and DXCC RTTY Awards in 1976. Today, many RTTY enthusiasts have moved on to more modern digital modes (like PSK and MFSK), but many hams and DXpeditions still use RTTY today. Also, there are many RTTY contests throughout the year. For county hunters, RTTY contests can be an excellent source of new counties for the **USA - Digital Award** and new modes for the **5 - Mode Award**. By the way, if you have never heard a RTTY signal, click on the following and download the file to your desktop: <https://dl.dropboxusercontent.com/u/26171574/RTTY.ogg>. Once the file "RTTY.ogg" is on your desktop, just run it to listen.

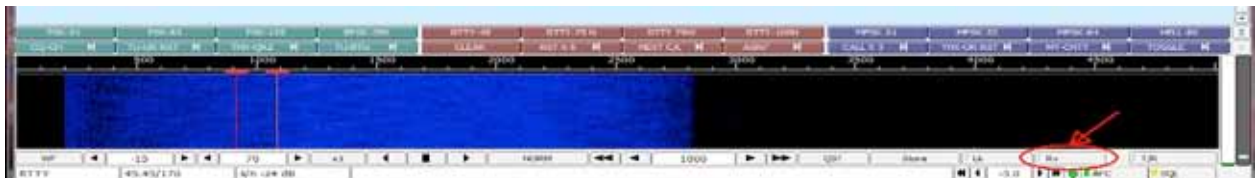
RTTY Signal characteristics:

A RTTY signal begins with a series of ON (“Mark”) and OFF (“Space”) pulses which represent the various letters, numbers, and control characters in the 5 bit Baudot code. Unlike the 8 bit ASCII code which can code 256 characters, the 5-bit Baudot code can only be used to represent 26 characters plus 6 control codes. One of these control characters (“FIGS”) is used before a string of text to allow a 2nd set of 26 characters (10 numbers plus 16 punctuation marks). Another control code (“LTRS”) is used to shift back to the first set.

These ON and OFF pulses are then used to either directly modulate the frequency of an RF carrier or to modulate the frequency of an audio tone which is injected into the pass band of a transmitter configured for USB or LSB. The direct method is called FSK (Frequency Shift Keying) and the second is called AFSK (Audio Frequency Shift Keying). Some purists believe FSK is the only way to go, but both methods produce identical signals if used correctly. It should be noted, however, that AFSK is subject to being over-driven if the input audio signal is too strong (just like PSK) and will produce a distorted signal if driven into non-linear operation.

What is Polarity?

Here is where it can get confusing! In FSK there are two frequencies, conventionally called “Mark” and “Space”. In amateur RTTY, the mark frequency is (by convention) the higher of the two RF frequencies and RTTY signals are transmitted on LSB. If you transmit with the opposite polarity, you are said to be transmitting “upside down”. If the person receiving your signal has his software set for normal polarity, your signal will show as gibberish on his screen. To solve this problem, either the sender has to reverse the polarity of their transmitted signal or the receiver has to reverse their receive polarity. If you are using FSK you can usually control the transmit and receive polarity independently, but when using AFSK software (like Fldigi), both transmit and receive polarity change at the same time. If you are decoding gibberish from another RTTY signal, you can quickly test for them being upside down by clicking on the “Rv” button at the bottom right of the screen (below).



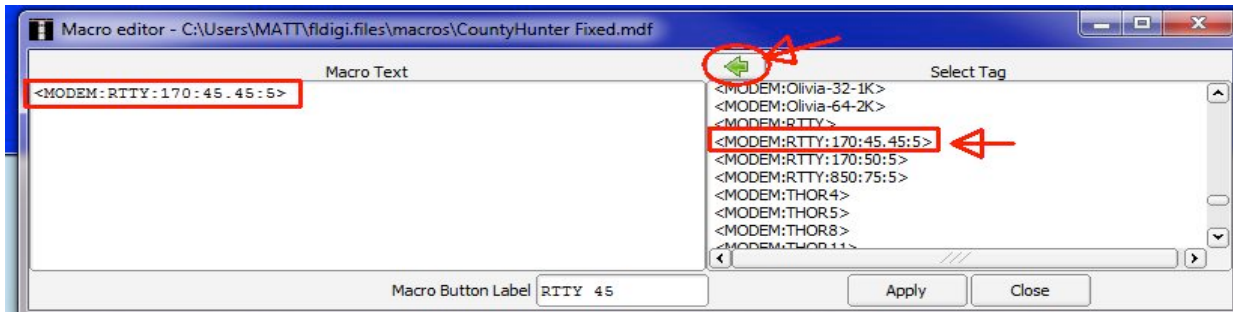
The “Rv” button toggles between two states - the normal (unreversed) as shown above and reversed (not shown) with the light ON at the left end of the button.

Fldigi handles default polarity a bit differently. First, the operator must set his transceiver to USB for all digital modes including RTTY. The Fldigi software then sets the transmit and receive polarities so that they are correct for other amateur signals using LSB. Naturally, the polarities are also correct for other people using Fldigi on USB. What this means is that you can use the default settings for Fldigi to both work RTTY contests (where most are probably transmitting on LSB) and mobile county hunters who are also using Fldigi on USB.

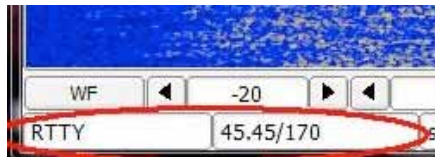
Fldigi Error:

An earlier release of Fldigi contained an error which caused improper configuration of the RTTY-45 mode when using the RTTY-45 MODEM Tag in a Macro Text. A message was sent to my digital list, but I need to repeat the cure for this problem here for anyone I may have missed. Simply stated, you need to:

- 1) Be sure you have updated to the latest version of Fldigi (Version 3.21.81 or later). You can get it from the following link: <http://www.w1hkj.com/download.html>.
- 2) If you have any macro files with macro buttons that select the RTTY-45 mode, you need to update the Macro Text for that macro button using the Modem Tag from the latest version of Fldigi as shown below:



Pull up the Macro Editor by right clicking on the macro button you wish to edit, and then delete everything in the left box (Macro Text). Then scroll down in the Select Tag box until you see the Tag indicated and select it with a left click. Next, left click on the left pointing arrow at the top to move the Tag into the Macro Text box. Finally, click on “Apply”, then “Close”, and test your modified macro button by left clicking on it. You should see exactly the following near the lower left corner of your screen:



You need to repeat this process for every macro file that has a RTTY-45 macro button.

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	1206	3077	3077	1320	381	31	7886	51.3%	3/18/2014
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	K0PVW	Rob	F	-	-	-	-	-	-	0	0.0%	
7	K0WJ	Lou	F	-	-	-	-	-	-	0	0.0%	
8	K4PBX	Jim	F	151	2889	133	19	9	8	3058	19.9%	2/26/2014
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	Billy	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	704	3050	2121	643	268	104	6186	40.2%	4/27/2014
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	500	3077	3029	2289	355	69	8819	57.3%	1/7/2014
29	N0LXI	Sharon	M/F	1373	3077	2271	1231	504	257	7340	47.7%	4/26/2014
30	N1API	Al	F	701	3077	2213	631	404	271	6596	42.9%	4/24/2014
31	N4JT	Jim	F	736	3077	3064	743	235	150	7269	47.2%	10/21/2013
32	N5MLP	Ron	M/F	391	3077	409	54	37	9	3586	23.3%	5/19/2013
33	N6PDB	Dennis	M/F	889	3077	2902	1104	783	626	8492	55.2%	4/27/2014
34	N8CJ	Dick	F	676	3077	3014	668	303	229	7291	47.4%	9/5/2013
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	722	3077	3077	743	59	35	6991	45.4%	9/7/2013
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	2018	1138	490	9572	62.2%	4/26/2014
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	W4IHI	Garv	F	-	-	-	-	-	-	0	0.0%	
48	W4SIG	Kerry	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	332	3077	2691	358	203	166	6495	42.2%	4/21/2014
51	W6RK	Risto	F	-	-	-	-	-	-	0	0.0%	
52	W6RLL	Joe	F	-	-	-	-	-	-	0	0.0%	
53	W7FEEN	Larry	F	25	3077	2975	32	1	0	6085	39.6%	10/3/2013
54	W7IN	Larry	F	-	-	-	-	-	-	0	0.0%	
55	W7OQ	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	173	1919	389	30	3	0	2341	15.2%	3/25/2014
62	WA7JHQ	Sterling	F	-	-	-	-	-	-	0	0.0%	
63	WB0M	Jeff	F	-	-	-	-	-	-	0	0.0%	
64	WB2ABD	Paul	F	-	-	-	-	-	-	0	0.0%	
65	WD4OIN	Jack	F	1021	3077	3070	1031	453	204	7835	50.9%	4/15/2014
66	WQ7A	Terry	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>

Further comments on RTTY

Most digital county hunters seem to have settled on RTTY-45 as one of the 3 or 4 modes they use when putting out a county or county line. RTTY-45 is certainly the most popular RTTY sub-mode used by amateurs all over the world, but let me suggest that RTTY-45 may not be the best choice for digital county hunting. First, although a 45.45 baud rate is supposed to be the equivalent of 60 WPM (words per minute), in real world tests it comes out closer to 55 WPM. PSK-63 (one of our other popular digital modes) clocks in at almost 70 WPM. After putting out a county using PSK-63, the slower speed of RTTY-45 is definitely noticeable and you find yourself getting a little frustrated at the extra time required.

I recommend that both RTTY-75N and RTTY-75W be given a try by digital mobiles when putting out counties. RTTY-75N takes up about the same bandwidth (180 Hz) as RTTY-45, but clocks out at 85 WPM which will save precious time when putting out a county. RTTY-75W occupies about 860 Hz bandwidth, but it runs at 100 WPM which would save even more time!

Naturally, there is still no “free lunch”. One drawback to using the faster modes may be less ability to copy weak signals. Another is that not all digital software programs are compatible with these sub-modes (Fldigi is totally compatible). However, without further tests, we will never know whether or not the advantages outweigh the disadvantages.

This will be one of the topics discussed at the Digital Meeting at the MARAC National Convention in Visalia, CA. See you there!

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

“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 on our waterfall again real soon!

Matt – W0NAC



Hollis -KC3X

5 band award:

This 5 band award took two months shy of 29 years to achieve. I gave up several times but W0GXQ kept encouraging me to continue. I still need 1077 counties for the trophy. I plan to continue my quest to achieve this award but it take the participation of a lot of hams to pull this off. I hope many more of you take up the fun or running multiple bands when you go mobile. Thanks you everyone's for helping me achieve this award.

Special thanks to those mobiles that took the extra time to run on 30 or 17 meters or both bands in the last 5 years that allowed me to get this award: KM1C, KW1DX, WA1IIE, KL1V/KV7N, NT2A, WB2ABD, K2HVN, NM2L, N2OCW, W3CR, KA3DRO, W3DYA, (N3HOO), K3IMC, KA3QLF, WA3QNT, KE3VV, AF3X, VA3XOV, N4AAT, N4AKP, N4CD, K4EXT/KG4VBK, W4HSA, N4JT, WB4KZW, WD4OIN, WA4PGM, N4PJ, KA4RRU, W4SIG, WA4UNS, K4XI, KN4Y, W4YDY, K4YFA, K4YT, AB4YZ, KS5A, K5GE, K5OH, N5MLP, AI5P, KC5QCB/AJ5ZX, W5QP, N5UZW, N5XG, K5YAA, KB6TAK, W6TMD, NW6S, KB6UF, WG6X, WQ7A, W7FEN, WA7JHQ, (WY7LL), AB7NK/K7SEN, AB7RW, KS7S, K7TM, KC7YE, AK8A, W8FNW, W8GEJ, N8HAM, W8JJ, W8LVN, K8MM, W8MP, KG8PGW, K8QWY, AA8R, AC8W, K8ZZ, WG9A, N9AC, N9BIL, WD9EJK, N9JF, NN9K, ND9M, W9MSE, N9QS, N9STL, KM9X, WY0A, K0ARS, (KQ0B), K0DEQ, W0EAR, K0FG, W0GXQ, N0KV/N0DXE, W0MU, NF0N, W0NAC, NU0Q, W0QE, N0SM, (N0ZA).

THE MOBILE AMATEUR RADIO AWARDS CLUB



DATED : APRIL 10, 2014

AWARD MANAGER - KC6AWX
ROBERT DEVINE

Elections**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.

CW CHOTY KW1DX Nominated by Kerry – W4SIG**David Pyle
KW1DX**

Dave started his ham career in 1979 through his Jr. High School radio club and quickly became interested in DX (hence his DX callsign). He has earned WAS, WAZ, VUCC and DXCC and been active in contesting as part of multi-multi stations and single operator in the ARRL and CQ WW contests. He has also operated field day from N1FD in Nashua, NH.

Dave started in county counting for a short time in the mid-90s but got hooked in 2005 when he stumbled across the 20 meter net again. Since then, he has completed USA-CA and Bingo and is working toward Master Gold and all the other awards. He enjoys helping out on the nets with spotting and running stations, even though he cannot pronounce some of those obscure counties. Dave also enjoys running counties and continues to improve his mobile station, now having the capability to run all bands, SSB, CW and Digital.

On a personal side, Dave has a non-ham, yet very supportive wife Stephanie, a 10 year old daughter Cassie and a nine year old son Chris, who may often be heard in the background while he runs counties. Dave works in the computer industry doing database analysis consulting which gives him the opportunity to sometimes work from home and county hunt at the same time.

Achievements:

USA-CA #1208 11/19/2010, Bingo #352 8/9/2013

Ran all State: CT, DE, HI, MD, ME, NH, NJ, PA, RI, SC, VT

Unique Counties Ran: SSB:709, CW:173, Digital:12

Last County Awards: 252

Member of the Awards Committee since Oct 2010

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Unique Counties Ran: SSB:709, CW:173, Digital:12

Last County Awards: 252

Member of the Awards Committee since Oct 2010

SSB CHOTY W0NAC Nominated by N0KV and N0DXE

**Robert (Matt) Mathews
W0NAC**

My first amateur license (W0NAC) was issued in 1948 while still in high school. I built

my first transmitter using an 815 tube for the final and my folks gave me a Hallicrafters SX-43 receiver for my birthday. I remember that this was near a peak of the sunspot cycle and I had a great time working stations on 10M from my “shack” in the back yard built out of old ammunition boxes. It had a “pot bellied stove” to keep me warm. All this took place in Rocky Ford, CO where I was born. I remember with great fondness the many “Elmers” that helped me during those years.

After joining the Air Force in 1953, I finished Aviation Cadet pilot training in 1955. I was stationed many different places around the world including Bitburg AB Germany where I held a DL call for a couple of years. In 1968 I served in South East Asia (Thailand) as a Wild Weasel pilot flying the F-105 Thunderchief for 100 missions over North Vietnam. Most of these missions involved hunting and suppressing Surface to Air Missiles (SAMS). Not much opportunity to ham there except I do remember using the MARS station on base to talk to the XYL via phone patch. I also served two tours at the Pentagon in Research and Development where I helped develop the AIM-9L air-to-air missile and also helped get the F-15 and the Space Shuttle off the ground. Along the way I also completed my BSEE and MSEE plus an MBA... all thanks to the USAF. I retired from the Air Force as a full Colonel in 1980 and worked for Martin Marietta as a systems engineer until 1990 when I retired again. I then worked for myself as a computer consultant/software designer until 2005 when I really retired!

Through all these 60+ years I have almost always been active in some aspect of ham radio. I ran across the County Hunters Net around October 1999. After listening a while, I decided that I wanted to put out counties as a mobile station and as they say “The rest is history!”. It took about 23 months to complete the CQ Magazine USA-CA (All 3076 counties) award. To date I have completed the 2nd, 3rd, and 4th time USACA awards and only lack 276 or so counties for the 5th time. I have also completed the following awards: 5 Star, USA-PA-K, Master Gold, All Mobile To Mobile, All SSB, BINGO, BINGO II, and several others. Also, over the last fifteen years I have transmitted from about 1839 of the 3077 counties in the 50 states including all counties in Colorado (twice), Kansas, Montana, New Mexico, Arizona and Texas.

I am currently serving MARAC on the Awards Committee (5+Years), as Treasurer and member of the BOD (2 years), and as a member of the Logger Support Team (7+ years).

For over 10 years I have been doing my best to advance the role of digital modes in county hunting. As part of these efforts, I sponsored and obtained Board approval for 2 new MARAC Awards (USA – Digital Award in December 2004 and the 5 – Mode Award in August 2011) and have given many live demonstrations and talks on digital modes at National and Mini conventions. In addition, I just completed my 20th “Digital

Happenings” article that has been published in the MARAC Roadrunner. Finally, I have helped over 40 different county hunters on a wide range of digital matters via email, phone calls, remote control of their computer, and direct “hands-on” help. All of this has been and still is a “labor of love” which gives me a lot of satisfaction just helping people.

Matt
W0NAC

SSB CHOTY WA9DLB Nominated by Percy KA1JPR

**Tony Mazzocco
WA9DLB**

I was first licensed in 1968. I continued to work SSB and CW until I was drafted into the United States Army where I served in electronics counter measures, combat developmental and experimental projects. This hitch was followed by another two years in the 327th Military Police active reserve at home.

After the Army I chose to switch from photography to electronics and I began working as a technical supervisor overseeing large public safety and police communications systems.

While employed by Motorola I met a young lady, Helen Haller, and within 6 months, on August 4 1973, we married. We have 3 sons and 1 daughter and we reside in the Barrington Illinois country area.

During my 40 years with Motorola I held various supervisory positions - human relations, materials and production planning and scheduling, inventory control, project management, budgeting and quality assurance. Well, I wasn't getting any younger or better looking so decided to retire and enjoy County Hunting.

I have been a county hunter for 15 years. I earned my USACA 5 times, Bingo 3, Master Gold, 5 Star Award, USA-PA A and K, RAS in IA, IL, MI, MN and WI.

Last year I transmitted from several other States – Illinois, Indiana, Kentucky, Tennessee, North Carolina, South Carolina, Georgia, Florida, New Jersey, Pennsylvania, Virginia, Ohio – and many more while traveling to the Nation Convention in South Dakota.

I serve on the MARAC Board of Directors as a North Central Director. I attend both

Mini Conventions and National Conventions in support of MARAC and County Hunting

I also have logged over 1300 hours helping others as SSB Assistant Net Control or Net Control on the 20 and 40 meter bands.

My wife and I are both involved with Local and State politics and we collect and distribute holiday gifts to the needy in our community.

Beginning with the Michigan Mini, we are planning to travel to several States to visit and transmit from many new (for us) counties.

County Hunter of the Year CW
KW1DX _____

County Hunter of the Year SSB
W0NAC _____
WA9DLB _____

Your call sign: _____ MARAC # or Election Key _____

Kent Reinke KV7N
MARAC Election Coordinator
1826 East 4500 North
Buhl, Idaho 83316



New Members

MARAC Number
R4555

Callsign
K7YMA

Name
George Scott 3rd



Birthdays

Roadrunner - Birthdays	
Call	Birthday Date
N1CP	May - 01
K9GI	May - 01
AD5WI	May - 01
W8WVU	May - 01
KB9ER	May - 01
N7NU	May - 01
KF5EH	May - 02
K5IW	May - 02
KA5AGM	May - 02
AC7DC	May - 02
K1TW	May - 02
KC2RNA	May - 02
W5AL	May - 03
VA3XOV	May - 03
NK2W	May - 04
N2DFC	May - 04
VE3KZE	May - 04
KA1JPR	May - 04
W5BAK	May - 05
W4USA	May - 05
WD5O	May - 05
KB0LN	May - 05
K5PKQ	May - 05
W7CA	May - 05
WA0JCE	May - 05
WV8LNX	May - 05
K9DXA	May - 06
KC8EM	May - 06
KJ8V	May - 06
W8CDC	May - 06
KE1GI	May - 06
K4RYE	May - 06
KB9OWD	May - 06
W8RCW	May - 07
K6Twx	May - 08
N5ZXR	May - 08
AC4WF	May - 08

Roadrunner - Birthdays	
Call	Birthday Date
NH6T	May - 09
OH3JF	May - 09
K3PN	May - 09
W7KWR	May - 09
K3KX	May - 09
K7VI	May - 09
N1ETC	May - 10
K4FPF	May - 10
N2NL	May - 10
K4IJQ	May - 10
W4LTF	May - 10
W7CFR	May - 11
N4GJ	May - 11
AA6PI	May - 11
K5CBS	May - 11
N2TR	May - 11
NX0X	May - 12
ND3T	May - 12
AE3Z	May - 12
K7RE	May - 12
KI4HL	May - 13
W6RJC	May - 13
K0MT	May - 13
KO4VP	May - 13
KR4U	May - 14
AD4LQ	May - 15
N7JPF	May - 15
N9JZ	May - 15
N4JT	May - 15
KU9UUU	May - 15
KM9X	May - 15
N8BGF	May - 16
KA7ICF	May - 16
K4PLB	May - 16
W4MAT	May - 16
WA0RVG	May - 16
W5VD	May - 17

Roadrunner - Birthdays	
Call	Birthday Date
AH9B	May - 17
K5CJ	May - 17
KB4TI	May - 17
AA6AF	May - 17
N0SM	May - 17
W5IUA	May - 17
N9QPQ	May - 17
N3AO	May - 17
KG5RQ	May - 17
N3KR	May - 18
K0SSE	May - 18
WB9UKS	May - 19
K0YW	May - 20
AB5OK	May - 20
K1QFD	May - 20
WA1LJD	May - 21
N4DDK	May - 21
NH7N	May - 21
W9DC	May - 21
KM5QF	May - 21
KF0KC	May - 21
KF7CT	May - 22
K8LJG	May - 22
NA4FM	May - 22
AB2LS	May - 22
W1TY	May - 22
KJ6C	May - 22
WW3DE	May - 23
N7AZ	May - 23
W4RSD	May - 23
N0DXH	May - 24
ND9M	May - 24
K1CXP	May - 24
ON4AAC	May - 24
W7GVF	May - 24
AA9GF	May - 24
WB2NFB	May - 24

Roadrunner - Birthdays

Call	Birthday Date
KJ4VV	May - 24
W8OWR	May - 25
WB5KLJ	May - 25
K9KBK	May - 25
N5MLP	May - 25
N0VWD	May - 25
KL7NV	May - 26
KE9SZ	May - 26
NU9M	May - 26
WA2CG	May - 26
NK0L	May - 27
KC8AKM	May - 27
KN4JR	May - 27
AA8IA	May - 27
N7LON	May - 27
WB4KZW	May - 27
K8EUX	May - 27
KF9LI	May - 27
N0ALC	May - 28
NL7KM	May - 28
KA4NZG	May - 28
N8CIJ	May - 28
W0CI	May - 29
KE9FG	May - 29
W9PIP	May - 29
K1CN	May - 29
K4ZZ	May - 30
K8AO	May - 30
N6VQQ	May - 30
K2MF	May - 30
N4ABR	May - 30
W9GBH	May - 31
W0ICP	May - 31
W1KSI	May - 31
N6PDB	May - 31
K7INA	May - 31
WB5IMT	May - 31



Awards

Awards Issued For March/April			
Call	Date	Award	Number
N6PDB	3/19/2014	Master's Gold	# 61
KC3X	4/10/2014	Five Band Award (17,20,30,40,80M)	# 1
KA1JPR	4/19/2014	USA-PA "N"	# 20
N4AAT	3/18/2014	Bingo II	# 2
K7REL	4/10/2014	USA-CW IV	# 9
N5MLP	3/12/2014	USA - Single Band	# 22 - 20 meters
N9QS	3/5/2014	County Challenge	Level 13
KV7N	3/18/2014	1000 Last Counties Trophy	# 7
K5GE	4/8/2014	USA Call Combo 1X3	# 12
K4XI	3/25/2014	Worked all Counties - 6thTime	# 49
WQ7A	3/23/2014	Worked all Counties - 6thTime	# 48
K2JG	3/18/2014	Worked all Counties - 11th Time	# 2
N4AAT	3/20/2014	Worked all Counties - 11th Time	# 3
KZ2P	3/18/2014	Worked all Counties - 16th Time	# 1

Roadrunner Issued For March/April				
Call	Date	Count	Award	Number
K2HVN	3/26/2014	Last County Count 775	Last County Count 775	# 16
N2JNE	4/11/2014	Last County Count 125	Last County Count 125	# 181
N0KV	4/11/2014	Last County Count 550	Last County Count 550	# 29
AB7NK	4/11/2014	Last County Count 75	Last County Count 75	# 270
WA9DLB	4/11/2014	Last County Count 75	Last County Count 75	# 269
N4CD	3/4/2014	Last County Count 2300	Last County Count 2300	# 1
KB6UF	3/26/2014	Last County Count 1175	Last County Count 1175	# 5
K4YT	3/26/2014	Last County Count 125	Last County Count 125	# 180
K5GE	3/26/2014	Last County Count 400	Last County Count 400	# 46
K7SEN	4/23/2014	Last County Count 25	Last County Count 25	# 511
N4AAT	3/4/2014	Last County Count 1025	Last County Count 1025	# 6
KW1DX	3/4/2014	Last County Count 250	Last County Count 250	# 82
W5QP	3/4/2014	Last County Count 125	Last County Count 125	# 179
KV7N	3/18/2014	Last County Count 1000	Last County Count 1000	# 7



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

Beginning Account Balances Mar 4, 2014 **\$36,266.18**

March Income:

Money Market Interest	\$2.47	
Awards Manager Income	\$0.00 #	
Membership Income	\$503.29	
Logger distribution	\$45.00	
Total Income:		<u>\$550.76</u>

March Expenses:

Awards Manager Expenses	\$0.00 #	
Annual MARAC Web Services (Easy GCI)	\$113.88	
Office Expenses (Postage)	\$0.00	
Total Expenses:		<u>\$113.88</u>

March Net Income Less Expenses **\$436.88**

New Total Balance ALL Accounts: **\$36,703.06**

Checking Account Balance	<u>\$5,657.79</u>	
Money Market Account Balance	<u>\$31,045.27</u>	
Total:		\$36,703.06

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 expensed later)

* Includes March Transactions through 3/31/2014

March Award Manager Income & Expenses will be reported in April (combined)



Awards Manager's Report

April 30, 2014

Funds Balance February 28, 2013		\$1,500.00
Income	\$ 686.00	
	<u>\$ 686.00</u>	
Expenses:		
Office supplies	\$ 41.56	
Plaque Suppliers	\$ 54.00	
Postage	\$ 40.42	
	<u>\$ 135.98</u>	
Sent to Treasurer		\$ 686.00
Reimbursement received from Treasurer		\$ 135.98
Funds Balance April 30, 2014		\$1500.00



Calendar

~ May 2014 ~							June ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
ONLY START DATE SHOWN		CLICK ON EVENT TO GO TO WEB SITE		1	2	3 10-10 CW 7 TH AREA QP IN QP N.E. QP	
4	5	6	7	8	9	10 NV MUSTANG QP	
11 STRT KEY SPRINT	12	13	14	15	16	17	
18	19 RUN4BACON	20	21	22	23	24 CQ WW WPX	
25	26 MI CW SPRINT	27	28	29	30	31	



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

Historian: Gary Beam, K4EXT, 195 Nanny Goat Hill Rd, Elizabethton, TN 37643, ch2@k4ext.com

Newsletter Editor: Dave Hyatt, KU4YM, 159 Schooler Bend Ave, Summerville, SC 29483, 843-442-8666, dhhyatt@ieee.org

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

Webmaster: Mike Fatchett, W0MU, PO Box 3500, Parker, CO 80134, 303-790,4611, w0mu@w0mu.com

Custodian, Club Call, K9DCJ: Joyce Boothe, WB9NUL, 21175 FM2556, Santa Rosa, TX 78593 1-956-202-3373 joycenul@aol.com

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.