



The Official Publication of
The Western Carolina Amateur Radio Society, Inc

Issue: June 2013

Since 1977

Upcoming Events:

- **Friday Morning Meet up 10 AM @ Biltmore Square Mall**
- **Field Day June 22-23**
- **Meeting @ AB Tech July 11**
- **Hot Doggett 100 July 13**
- **French Broad Cycling Classic July 20**
- **Meeting @ AB Tech August 1**
- **Blue Ridge Breakaway August 17**

Meeting Information:

Next Meeting: July 11

Meetings are at AB-Tech in the Sycamore Building Room 201 at 7:30 PM

Should Buncombe County schools close due to inclement weather our meeting will be canceled.

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**President's Message
 by Scott - W4IYS**

Summer is here and we are looking at field day Hamfest and a couple of races, also a work day to work on the repeater site and possibly a work day to take down a 92 year old ham (who is blind)' antenna farm and station so he can move. So as you can see a lot is going on and that is a big part of what hamming is all about please find a place to fit and jump in we need you.

Enough mules pulling the wagon and we can get there.

Please keep Norman Harrill - N4NH on the prayer list and add Reid Todd - KK4BRF with a broken heal and Linda Harris - KJ4CRL, on the loss of her father.

Thanks for all you all do till then,

Scott

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**Buncombe
County ARES
Report**

by Carl - N4AA

Folks, we're becoming "famous" for our ability to "talk" when no one else can. We all know the story... "Our radios won't work... call the hams!" They've been doing it for years but more in recent years, especially after Katrina and New Orleans. And of course, 9/11 added to that story.

Locally we have been involved in providing communications for a number of events over the years and the word is spreading. The recent activity for the Meals on Wheels has led to another request for assistance in July for another bicycle racing event. It will require a lot of folks spread over a wide area and it will take a lot of volunteers if we are to meet this request. I have also been contacted about a MAJOR event in September that will require a very large number of people ... that one will involve more than just hams, but more on that later as more information becomes available.

For the July event, first and foremost is the need for someone who can take the lead and organize the troops. I'd love to be able to do this, but physically I just can't get out there to 'Git R Done' anymore. If no one is willing to step up to the plate, then we will simply have to deny this request. Do you really want to do that?? We do have a reputation and to now decline would really hurt that reputation. So, what say, who will take that step ??

And, a number of volunteers will be needed to spend a weekend in mid-July (before the Hamfest) helping the Asheville Bicycle Racing Club with this project. Let me hear from you... the number is 683-0709.

The second item this month is a project the ARES group is starting which is to create a WNC Weather reporting network. This will eventually include (we hope) most, if not all, of the counties from Buncombe county west to the Tennessee line. The NWS office in Greenville/ Spartanburg NWS is now relying on FACEBOOK of all things to get current weather information from some of the mountain areas where their Doppler Radar cannot see what is happening. They are asking if we can create this reporting network so they can get information direct, in real time, and not have to rely on internet reports. This will require volunteers who have the capability of connecting to various VHF/UHF repeaters as well as HF capability where the VHF/ UHF links are not available. I am pleased to have Dwight Danner, W4DCD and Paul Tilley, KK4BRD aboard who are heading up this project for us. If you are willing to participate in this project, let one or the other of them know and they will provide all the information necessary. This project is in its infancy but definitely grow if we will allow it to grow. I intend to make this a priority topic at the ARES meeting during the Hamfest the end of July where we will attempt to recruit volunteers from other areas west of Asheville. Will you help ? ?

Thanks and 73,
Carl, N4AA
ARES-EC, Buncombe County

BC-ARES Skywarn



Still in the early stages of formation several BC-ARES members are forming a Skywarn group that is

located in Buncombe County. Right now there is no name for the group, so for lack of a name I have placed it under BC-ARES Skywarn, this will likely change.

There have been attempts from Skywarn groups outside of WNC to monitor weather in our area with mixed results. Currently the National Weather Service relies upon Facebook and Twitter to get often less than real time reports of severe weather as much as 30 minutes to hours after the event.

By having the core of the operators and net control based in Buncombe County we are better able to serve the interests of residents in Buncombe County but also the National Weather Service who needs our assistance.

Dwight - W4DCD is taking care of getting a WX4 call sign that can be used to separate Skywarn from BC-ARES activities.

We need operators who can give a report via radio and we also need operators who can perform net control operations. By having a pool of net controllers there is not so much of a burden on one or two people.

You don't need any fancy equipment, if you have a 2 meter or HF radio and an antenna you already have all the equipment you need.

Our goal is to start locally in Buncombe County and report directly to the National Weather Service via radio during severe weather. Once a solid core of operations is established in Buncombe County we will expand west to the Tennessee / North Carolina state line. In South Carolina various Skywarn groups in the counties covered by the Greer office are working towards a similar goal of real time communications.

We can not do this alone and need the assistance of other clubs and individuals in order to make this work. Training on spotting and net control operations can be available if needed.

Remember severe weather can occur in western North Carolina and the reports we give to the National Weather Service save lives.

If you are able to help out please contact:

Dwight - W4DCD dwight.danner@ersnc.org

Paul - KK4BRD kk4brd@gmail.com

Repeater News

As discussed at a couple of meetings there is some work to be done at the repeater site. This includes some painting, reorganizing of the shack, fixing the hard-line tower mounting, mounting the packet antennas, etc.

At the last meeting there was some mention of cooking food to feed the work crew. If you are able to help out with a work party let Scott know so that plans can start to be made so the work can get done.

Work is most likely to be done sometime after the Hamfest has occurred but before the end of summer.

Steve - N4SET has confirmed that the repeaters for WCARS are coordinated in SERA, thanks Steve for taking care of that!

What you missed ... Meeting Minutes

June 6, 2013

Prepared by Bob - WD4CNZ

The meeting was called to order at 1933EDT by Scott McCabe, WCARS President.

He welcomed everyone and asked all to join in the Pledge of Allegiance. He then asked everyone to introduce themselves giving a name, call sign (if any), and QTH.

He then asked Steve N4SET to present the Treasurer's Report. The report was received with thanks.

Scott commented on the abnormally high usage of propane by the emergency backup generator. Some discussion was held on the course of action to take and was agreed upon to have Chet properly shut down the generator and tank until an inspection of the tank and line could be done to determine if there is a leak. The 146.910 repeater would remain in operation without backup power pending an inspection of the gas system.

In the event of prolonged power failure the 145.190 no PL and 146.760 no PL can be used as alternates, until backup power can be restored to 146.910.

Since July 4 (a Thursday) is a holiday, the **NEXT WCARS CLUB MEETING WILL BE JULY 11.**

Field Day is set for June 22-23. Shawn KG4YVS has been told that the new Fireman's Training Center is not available for use on Field Day.

Hamfest: "PLEA FOR HELP" by Jeff - KJ4TEI to tell him what and how you can do to help:

email: Weller_j.@bellsouth.net
tel: (828) 275-3297.

A planned covered dish dinner about 1800hrs on the Friday prior is being planned. Everyone is asked to bring 2 covered dishes (with food) to participate.

Elwood - N4ST will set up and run the concession stand and needs help operating, setting up, and taking down / cleanup:

email: elwood3@charter.net
tel: (828) 253-4490

New hams in this meeting were recognized with applause.

Steve N4SET reported on the SERA coordination progress and explained that the W4MOE repeaters are now coordinated!

The door prizes were drawn and awarded.

There being no further business, the meeting was adjourned at 2045 hours with refreshments and fellowship following.

WCARS / VEC Exam Schedule

Asheville - AB-TECH, Rm 134, Elm Bldg

**9:00 AM on the THIRD SATURDAY of:
January, April, July and October**

VE Team Leader: Bob Helton - KS4FX
Phone: 828-684-0249

**2:00 PM on the THIRD SUNDAY of:
February, May, August and November**

VE Team Leader: Steve Lankford - AG4BY
Phone: 828-768-2141

Burnsville - Yancey County Library

Contact:

VE Team Leader: David McCarty - W4TDM
Phone: 828-657-1044

Marion

Contact:

VE Team Leader: Harriet Fullbright - K4ICU
Phone: 828-291-7521

Rutherfordton - Isothermal College

Contact:

VE Team Leader: Bruce Tessineer - AD4OJ
Phone: 828-657-5464

Waynesville

Contact:

VE Team Leader: Al Sanders - WD4A
Phone: 828-926-8244

Weaverville - Reems Creek FD

9:00 AM on the First Saturday of:
April, July, October and December

VE Team Leader: Harley Bullman - AJ4PI
Phone: 828-645-0889

**For other locations contact:
Norman Harrill
N4NH@arrl.net / 828-253-1192**

**WCARS Hamfest
July 27th**

**Advance Tickets:
\$5.00**

**Gate Tickets:
\$7.00**

**Haywood County
Fairgrounds**

**758 Crabtree Road,
Waynesville**



This is the big fundraising event of the year for WCARS and all members who can help are requested to volunteer. There are a lot of setup to do on Friday and a lot of jobs to be filled on Saturday.

Please contact Jeff - KJ4TEI if you are able to help out and have not already contacted him.

If you help setup on Friday please bring at least two dishes with food in it. Meat will be provided by the club. This meal has long been a tradition with WCARS and the vendors appreciate it and it is why some keep coming back.

Remember the funds from the Hamfest help keep the repeater in operation.

Net Information 146.910 PL 91.5:

- **WCARS Information Net Monday @ 9:00 PM** - Club information, announcements and informal comments
- **BC-ARES Net Wednesday @ 9:00 PM** - Emergency communications practice and training, formal net followed by informal comments

Antenna Mailing List

Randy - KI4VLW received an email from Ralph Bilal - WD0EJA regarding a monthly mailing about antennas. Ralph requested that his contact information be sent to the membership so that any WCARS member who was interested in receiving his monthly antenna mailing could contact him and be put on the mailing list.

Here is a sample of the monthly mailer:

“GETTING AN HF ANTENNA TO WORK - PART 2

Your antenna is mounted and the coax is installed. What are you looking for to see if it works?

Resonance.

What is that? You can liken it to a piano wire. Physically the size of the wire determines how fast the wire oscillates back and forth per second. That value is the resonant point of the wire. When it resonates you hear the tone it produces. With radio waves, there are no moving parts. However, depending on the frequency you chose to operate, the electrical energy oscillates at that value. For example, take 7 Mhz. The current in the wire moves in one direction, weakens to the point of no current at all, then reverses in the opposite direction. This is done at 7 million times per second. In order for that energy to leave your radio and coax, it needs a resonant device at the end, the antenna. What is in the antenna to make it a resonant device? Future articles will go into this more in depth. However, to start, we can use a measurement most are familiar with, the Standing Wave Ratio(SWR). We usually measure (SWR) at the radio. What is it?”

To contact Ralph - WD0EJA email him at: wd0eja@isotronantennas.com

Regional Hamfests

Firecracker Hamfest Rowan Amateur Radio Society

When: July 6, 2013
Where: Salisbury Civic Center
315 South Martin Luther King Avenue
Salisbury, NC

Talk-in: 144.810 / 145.410 (PL 136.5)

Mid-Summer Swap Fest Cary ARC

When: July 20, 2013
Where: Town of Cary, Harold Ritter Park
301 West Lochmere Drive
Cary, NC

Talk-in: 146.88 (-0.6) (No PL)

15th Annual Cape Fear Amateur Radio Swapfest Cape Fear Amateur Radio Society

When: August 3, 2013
Where: Cumberland County Shrine Club
7040 Ramsey Street
Fayetteville, NC

Talk-in: 146.910 (PL 100)

Shelby Hamfest Shelby Amateur Radio Club

When: August 31, 2013
Where: Cleveland County Fairgrounds
1751 East Marion Street
Shelby, NC

Talk-in: 146.880 (-), (no PL)

Know of a Hamfest that is in our region but not listed? Let me know so I can added to the list!

Contact Paul at kk4brd@gmail.com

From the Editor

Notice the change in Smoketest? It has been a year and half since I took over creation and editing of Smoketest. It was time for an updated look and hopefully the new style is easy for you to use and find the information you are looking for.

Field Day is coming up and hopefully we will be able to secure a location so that we can get together as a club and participate rather than from our own locations. However if a location can not be found this year, it should not discourage anyone for getting on the air from their home or on mobile.

Hamfest will be here soon, looking forward to that, hopefully the weather will cooperate and not rain for the two days. Remember if you are coming out on setup day to bring the two covered dishes with food for the vender / work crew meal.

I've not got any radio projects going on at the moment, aside from helping Dwight with the BC-ARES Skywarn program. Work has been very busy which is good ... need to make hay while it is hay making season, as the saying goes.

There has not been much activity on the Packet network, I am hoping that when the work crew goes up on the mountain this summer that the Packet antennas will be placed a bit higher.

Comments, suggestions, help wanted, items for sale or articles you would like to see in Smoketest? If so send your comments, suggestions, requests for help / items for sale, and articles to Paul at kk4brd@gmail.com

Hope you have enjoyed the new layout!

73s,

Paul - KK4BRD

HamStudy.org

Carl - N4AA received an email about a new online study resource that may be of interest to WCARS members. Below is the email:

Icom America Sponsors New HamStudy.org Website to Support Amateur Radio Education

BELLEVEUE, WA — Icom America, leading manufacturer of amateur (ham) radio equipment and technology, announces a sponsorship for HamStudy.org, a new website that offers free learning tools for existing and potential amateur radio operators. The website is accessible at www.hamstudy.org and was created by Richard Bateman (KD7BBC), Michael Stufflebeam (KV9G) and Rich Porter.

HamStudy.org users studying for an amateur radio license exam can choose from three online learning modules for each ham radio class: technician, general or extra. FCC Commercial Element 1, 3, 5 and 6 study modules are also available. Educational materials include flash cards, question lists and practice tests.

Users who register for a free HamStudy.org account on the site can access personalized study history and submit explanations to amateur radio questions. Website registrants may also choose to log into their account using their Google or Facebook credentials. HamStudy.org is optimized for mobile phones and tablets; additional features will be integrated to the website soon. Facebook users can receive regular site updates and study tips by "liking" HamStudy.org at www.facebook.com/HamStudy.

Icom is committed to the amateur radio hobby and supports many organizations that provide educational material for operators of any skill or experience level. In addition to HamStudy.org, Icom has also partnered with

the Ham Nation weekly netcast from TWiT.tv and the AmateurLogic.TV Internet television program. Icom has also been a proud sponsor of the Boy Scouts of America (BSA) since 1981. The company is the official amateur radio transceiver supplier for the BSA's 2013 National Scout Jamboree.

The ARRL Letter



Materials in the ARRL Letter are taken from The ARRL Letter online, full credit is given to The ARRL Letter and the American Radio Relay League, as per republication guidelines require.

<http://www.arrl.org/arrlletter>

Forecasters Calling for "Active or Extremely Active" Atlantic Hurricane Season

05/27/2013

Forecasters with the National Oceanic and Atmospheric Administration (NOAA) are calling for an "active or extremely active" 2013 Atlantic hurricane season. In its initial outlook for the 2013 Atlantic hurricane season -- which begins Saturday, June 1 and runs through November 30 -- NOAA's Climate Prediction Center (CPC) is forecasting a 70 percent likelihood of 13-20 named storms (winds of 39 miles per hour or higher), of which 7-11 could become hurricanes (winds of 74 miles per hour or higher), including 3 to 6 major hurricanes (Category 3, 4 or 5 with winds of 111 miles per hour or higher). These ranges are well above the seasonal average of 12 named storms, 6 hurricanes and 3 major hurricanes.

"With the devastation of [Hurricane] Sandy fresh in our minds, and another active season predicted, everyone at NOAA is committed to providing life-saving forecasts in the face of these storms and ensuring that Americans are prepared and ready ahead of time," explained NOAA Acting Administrator

Kathryn Sullivan. "As we saw first-hand with Sandy, it's important to remember that tropical storm and hurricane impacts are not limited to the coastline. Strong winds, torrential rain, flooding and tornadoes often threaten inland areas far from where the storm first makes landfall."

According to the CPC, the three climate factors that strongly control Atlantic hurricane activity are expected to come together, producing an active or extremely active 2013 hurricane season. These three factors are:

A continuation of the atmospheric climate pattern, including a strong West African monsoon, that is responsible for the ongoing era of high activity for Atlantic hurricanes, which began in 1995. Warmer than average water temperatures in the tropical Atlantic Ocean and Caribbean Sea. El Niño is not expected to develop and suppress hurricane formation.

"This year, oceanic and atmospheric conditions in the Atlantic basin are expected to produce more and stronger hurricanes," said CPC Lead Seasonal Hurricane Forecaster Gerry Bell. "These conditions include weaker wind shear, warmer Atlantic waters and conducive winds patterns coming from Africa."

NOAA cautioned that its seasonal hurricane outlook is not a hurricane landfall forecast and does not predict how many storms will hit land or where a storm will strike.

New for 2013

The CPC announced improvements to its forecast models, data gathering and the National Hurricane Center communication procedure for post-tropical cyclones. In July, the NOAA plans to bring online a new supercomputer that will run an upgraded Hurricane Weather Research and Forecasting (HWRF) model that provides

significantly enhanced depiction of storm structure and improved storm intensity forecast guidance.

Also this year, Doppler radar data will be transmitted in real time from NOAA's Hurricane Operations Center Hurricane Hunter aircraft. This will help forecasters better analyze rapidly evolving storm conditions, and these data could further improve the HWRF model forecasts by 10-15 percent.

The National Weather Service has also made changes to allow for hurricane warnings to remain in effect, or to be newly issued, for storms like Sandy that have become post-tropical. This flexibility allows forecasters to provide a continuous flow of forecast and warning information for evolving or continuing threats.

Amateur Radio and Hurricanes

Rick Palm, K1CE, editor of the ARRL's ARES E-Letter, warns that now is the time for ARES members to assess their portfolio of communications equipment and disaster response knowledge. Palm gives several tips for amateurs involved with hurricane operations:

- Monitor major HF hurricane networks during events this season. The Hurricane Watch Net (HWN) on 14.325 MHz is one of several key players. It serves either the Atlantic or Pacific during a watch or warning period and coordinates with the National Hurricane Center (NHC) in Miami. Frequent, detailed information is issued on nets when storms pose a threat to the US mainland. In addition to hurricane spotting, local communicators may announce that residents have evacuated from low-lying flood areas. Other amateurs across the country can help by relaying information, keeping the net frequency clear and by listening. See

the HWN's website for more information. The net works closely with WX4NHC, the Amateur Radio station at the NHC.

- The SATERN Net (Salvation Army Team Emergency Radio Network) provides emergency communication support to the Salvation Army and populations at large. They also handle health and welfare traffic. SATERN holds high profile nets on 20 meters (14.265 MHz) during major hurricanes and has a long history of excellence, discipline and service. Refer to the SATERN website for more information.
- The Maritime Mobile Service Net (MMSN) meets on 14.300 MHz and is composed of hams who serve and assist those in need of communications on the high seas. According to its website, the primary purpose of the net is for handling traffic from maritime mobile stations. The network is recognized by the United States Coast Guard and has an excellent working relationship with that agency. The MMSN has handled hundreds of incidents involving vessels in distress and medical emergencies in remote locations, as well as passing health and welfare traffic in and out of affected areas. They also work closely with the NWS and NHC by relaying weather reports from maritime stations.
- The VoIP SKYWARN and Hurricane Net operates by combining both the EchoLink and IRLP linked repeater networks, while handling critical wide area communications during major severe weather and tropical events. These operations have gained national stature in recent years and are a critical partner with WX4NHC. Whenever tropical weather is imposing a threat to the US mainland and certain other areas of interest, the VoIP WX net will be fully operational. See the VoIP SKYWARN and Hurricane Net website for more

information.

Palm said that during hurricane events, there are usually two or three regional nets (usually on 40 or 20 meters) that spring to prominence as major key assets to the disaster response on an ad hoc basis. "Watch for these nets, as well as the nationally recognized networks described above, this season," he advised. "Don't transmit on their frequencies unless you are absolutely sure you have something substantive to add, and then only under the direction of the net control station."

ARRL Emergency Preparedness Manager Mike Corey, KI1U, added that when ARES activates in response to any tropical event, it is crucial that information flows up through the Section and is reported to Headquarters. "These reports allow us to develop the situational awareness and disaster intelligence that is required for us as an organization to support the Sections that are impacted," he explained. "In this way, we are able to respond to relevant requests from the media and finally to coordinate with the governmental and non-governmental organizations. This information also allows us to make the decision at Headquarters on whether to stand up the ARRL HQ Emergency Response Team to support and coordinate the operations."

Corey noted that in July, the ARRL will host a webinar on the 2013 Atlantic hurricane season. Details will be posted on the ARRL website and in the June issue of the ARES E-Letter, as well as The ARRL Letter. All those interested in public service and disaster communications are invited to participate.

Solar Weather



NOAA Solar Forecasts

Updated at: 2013 June 16

Flare	0-24 hr	24-48 hr
Class M	05%	05%
Class X	01%	01%

Geomagnetic Storms

Mid-latitudes	0-24 hr	24-48 hr
Active	10%	15%
Minor	01%	01%
Severe	01%	01%

High-latitudes	0-24 hr	24-48 hr
Active	15%	15%
Minor	20%	25%
Severe	15%	20%

Sunspot Number: 101

Spotless Days

Current Stretch: 0 days
 2013 total: 0 days (0%)
 2012 total: 0 days (0%)
 2011 total: 2 days (<1%)
 2010 total: 51 days (14%)
 2009 total: 260 days (71%)
 Since 2004: 821 days
 Typical Solar Min: 486 days
 Updated 5 May 2013

Interplanetary Magnetic Field

B_{total} : 5.4 nT B_z : 0.2 nT south

The Radio Sun

10.7 cm flux: 111 sfu

HF Conditions	Day	Night
80 m - 40 m	Fair	Good
30 m - 20 m	Good	Good
17 m - 15 m	Fair	Fair
12 m - 10 m	Poor	Poor
VHF Conditions	Day	Night
Aurora	Band Closed	
6 m EsEU	50 MHz ES	
4 m EsEU	Band Closed	
2 m EsEU	High MUF	
2 m EsNA	Band Closed	
EME Deg	Good	

Local / Regional Nets



HF/VHF/UHF Net Information				
NET NAME	Freq offset / PL	Day	Local time	Notes
6600	145.190 -	Saturday	9-PM	Many check-ins-Wide area coverage
Blue Ridge Traffic	146.610 -	Nightly	9-PM	ARES/Skywarn in bad weather
BRARC	146.640 - 91.5	Sunday	9-PM	
Buncombe Cty Emerg. Mgt.	146.910 - 91.5	Wednesday	9-PM	Directed net, ARES/RACES
Carolinas Net - Early	3.573	Daily	7-PM	CW Traffic
Carolinas Net - Late	3.573	Daily	10-PM	CW - 15-18 WPM Traffic
Carolinas Net - Slow	3.571	Daily	8-PM	Slow CW - 8 to 10 WPM Traffic
Franklin, NC - Winesprings Bald	147.240 + / 151.4	Daily	9-PM	
Good Morning	146.760 -	M-W-F	9-AM	Informal, Everyone welcome
Haywood County Roundtable	147.390 + 94.8	Monday	8-PM	Informal, Everyone welcome
K4UUQ Morning	7.228	Daily	7-AM	Ragchew
Madison Cty-AmRadComTeam	224.660 100	Tuesday	9-PM	Madison County Emergency Comm
Mount Mitchell 220	224.540	Monday	8-PM	Informal, Everyone welcome
Mount Mitchell Ragchew	442.225 + 107.2	Monday	9-PM	Directed, Everyone welcome
Mount Mitchell Sunrise Net	442.225 + 107.2	Thursday	9-AM	Informal - Everyone welcome
Mount Pisgah 220	224.260	Sunday	9-PM	Informal, Everyone welcome
NC Evening Traffic	3.923	Daily	6:30-PM	SSB
NC Morning Traffic	3.927	Daily	7:45-AM	SSB
Oasis Shrine Radio Corp.	145.190 +	Sunday	9-PM	
SATERN	14.265	Daily	3-PM	Salvation Army Team-Emergency
Tarheel Emergency Net	3.923	Daily	7:30-PM	Directed, NC Emerg. Mgt - Traffic
Volunteer	147.180 + 136.5	Friday	9-PM	Info, News and Swap
WCARS Information	146.910 - 91.5	Monday	9-PM	Informal, Everyone welcome
???	224.600			WB4PLA on Spivey Mtn. ???
W4YK	53.630 - 100	Friday	9-PM	???
Traders Net	147.05 - 91.5	Tuesday	9-PM	
Skywarn	145.27 - 91.5	As Needed		
SC Hearts / NC Hears / SW VA Net	444.250 - 91.5	Daily	8-PM	
NC Hears	444.250 - 91.5	Daily	9:30 PM	
K4MFD Greenville - 440	444.200 + 173.8			Located on Bald Mtn. N. of Asheville
K4MFD Greenville - 6 Meter	53.400			Located on Bald Mtn. N. of Asheville Linked to N2GE 224.660 & KI4DNY 224.600 fulltime

Local / Regional Repeater List		
Frequency / offset / PL	Location	Notes
145.190 -	Mt. Mitchell	
146.520 Simplex	National Calling Frequency	
146.910 - 91.5	WCARS	
146.640 - 91.5	Hendersonville	IRLP
146.610 -	Greenville, SC	
147.105 + 91.5	Hendersonville	
145.270 - 91.5	Hendersonville	
145.370 - 91.5	Greenville, SC	
147.390 + 94.8	Waynesville	
147.315 + 123	Spartanburg	
147.060 + 123	Greenville, TN	
145.410 - 127.3	Greenville, TN	
145.390 - 186.2	Greenville, TN	
146.760 -	Mt. Pisgah	
146.880 -	Shelby	
147.135 +	Brevard	
147.285 +	Tryon	
145.330 -	Tryon	
146.790 -	Anderson, SC	
146.240 +	Franklin	Connected to 151.4 Pickens, SC
442.225 + 107.2	Mt. Mitchell	
442.450 +	Hendersonville	
442.850 +	Brevard	
444.875 + 131.8	Waynesville	IRLP
224.520 - 91.5	Mt. Spivey	
224.600 - 94.8	Asheville	
224.240 -	Hendersonville	
224.960 -	Hendersonville	
224.540 -	Mt. Mitchell	
224.260 -	Mt. Pisgah	
224.200 -	Shelby	
224.460 -	Shelby	
224.360 -	Marshall	
224.660 - 100	Madison County	
53.630 - 100	Mt. Mitchell	
53.130 - 100	Hendersonville	
53.410 - 131.8	Greenville, SC	

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HAMFEST

WCARS



Saturday
July 27, 2013

Sponsored by Western Carolina Amateur Radio Society

www.wcars.org

WHERE: Haywood County Fairgrounds
758 Crabtree Road, Waynesville, NC

Latitude: 35.533414 / Longitude: -82.960174

W4MOE

Gates open at 6:00 AM, Doors open at 8:00 AM. Advance tickets are \$5.00,
Tickets at the gate are \$7.00, correct change is appreciated.

Talk-In on WCARS repeater (W4MOE, 146.910 minus, 91.5 tone, Asheville), HCARC (N4DTR, 147.390 plus, 94.8 tone, Lake Junaluska)



Free parking ~ Hourly Prizes ~ VE Testing ~ Forums ~ Reserved Inside Tables ~ Covered Flea Market Spaces ~ On-Site Camping with Electric and Water (first come basis, 12 Noon Friday July 26th through 4 PM Saturday)

Hamfest	ADVANCE ORDER FORM		WCARS 2013
			No.
Name _____	Callsign _____	Tickets @ \$5.00 _____	= \$ _____
Address _____		Tables @ \$12.00 _____	= \$ _____
		Covered Spaces @ \$10.00 _____	= \$ _____
Phone _____		Total Enclosed: _____	= \$ _____
Email _____			

Please include an e-mail address so that we may confirm your order, along with an SASE for ticket delivery.
Requests received after July 18th will be held for pickup at the hamfest site on event date.

Mail to: WCARS, PO Box 1488, Asheville, NC 28802 www.wcars.org

WCARS HamFest Volunteer Sign-up

Name: _____

Call Sign: _____

Phone Number: _____

Email: _____

Days you can volunteer on: Friday Saturday

Hours you volunteer: All Day All Day

Morning Morning

Afternoon Afternoon

Evening Evening

Other: _____

Please email Jeff - KJ4TEI at weller_j@bellsouth.net with the information on this form.

Where's the Hamfest at?



Haywood County Fairgrounds <http://goo.gl/maps/h1gyq>

758 Crabtree Road, Waynesville, NC

Talk-In on WCARS repeater (W4MOE, 146.910 minus, 91.5 tone, Asheville),
HCARC (N4DTR, 147.390 plus, 94.8 tone, Lake Junaluska)

Setup July 26th - Hamfest July 27

Gates open at 6:00 AM, Doors open at 8:00 AM. *Advance tickets are \$5.00,
Tickets at the gate are \$7.00, correct change is appreciated*