



WCARS.org
September 2012

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

President's Microphone

Please give some serious thought for next year officers as our by laws will not let us operate the club. And/or the repeater without them, we have all positions filled with the exception of vice pres, a most important job. So please will you help for one year it will be much appreciated especially by me.

Also Our nation is voting in November and our freedom is not free remember to vote, it does matter.

See you all Oct 11 the next meeting

Scott

Meeting Minutes for September 6, 2012

The meeting was called to order at 1930 EDT by Scott McCabe W4IYS, WCARS President.

He invited everyone to join in the Pledge of Allegiance.

All members and visitors were then asked to introduce themselves giving name, callsign (if any), and QTH.

The Minutes of the August meeting were published in SMOKETEST (club newsletter), August issue.

**Meeting for October is on the 11th
W. Asheville Library
7:30 PM**

INCLEMENT WEATHER NOTE

Club meetings are subject to the following:

Should Buncombe County offices close due to inclement weather, the library will close. If that happens, our meeting will be canceled.

WCARS Elections

Nominations will be selected at the October meeting, please attend to select your nominee for officer positions. Three officer positions will remain the same, Treasurer, Quartermaster and Newsletter Editor.

Elections will be held during the November meeting (November 15th). Please make an effort to attend as this is an important function of the club.

BCARES

Anyone interested in getting on packet and increasing the packet system in Buncombe County should contact Carl - N4AA at carl_n4aa@charter.net for more information or check-in the BCARES net on Wed. night on 146.910 (PL 91.5) net begins 9 PM.

Meeting Minutes for September 6, 2012

The Treasurer's Report was presented by Steve Emory N4SET, WCARS Treasurer.

Prior to the meeting beginning, tickets were sold for the 50-50 drawing, for an ARRL Handbook, and for a \$50 ARRL gift certificate. Drawings for the winners were made at the end of the meeting.

A current list of members was made available to attendees.

A proposed slate of officers for 2013 will be made at the October meeting with elections to be made at the November meeting.

December 8 is set for the annual Christmas Party & dinner to be at the Masonic Lodge in Candler. Dinner will begin at 1800 hrs.

A memorial plaque to be placed on the flag will be finalized at the October meeting. Members are asked to make nominations to honor any member or silent key to honor their service to WCARS.

Carl Smith N4AA spoke about packet and its use/expansion for ARES in Buncombe County. Contact Carl for more information.

A member reported hearing an announcement on a local a.m. radio station about ARRL and amateur radio.

Jamboree On The Air is set for the "third week" in October at the WNC Agriculture Center with daily operation from 10am-4pm. The event is open to the public. Members were asked to help as much as possible as the event takes many helpers.

Meeting Minutes for September 6, 2012

The Shut-In-Trail event is set for the first weekend in November. There are many points along the trail requiring operators to maintain radio communications and many helpers are needed for this event.

Winning tickets were drawn and prizes awarded for the items described previously.

The meeting was adjourned at 2014 hrs. with refreshments and fellowship following.

Submitted by Bob Dockery WD4CNZ

WCARS Secretary

Submissions for Smoketest

Smoketest is needing contributions, if you have setup a new system, made a new antenna, made interesting or overseas contacts or any other radio project why not submit it to the newsletter and share it with the club.

It is your newsletter to share ideas, projects or if you are needing help or looking for radio related items.

If you do have something you would like to put in Smoketest you can send it by email: kk4brd@gmail.com or if you prefer postal mail:

KK4BRD

207 E College Street

Black Mountain, NC

28711

**Your participation will help
make Smoketest better!**

Repeater Update

By Randy - KI4VLW

The 146.610 Caesar's Head repeater is fully operational now with full power restored. The signal now reaches Asheville and surrounding areas. There is no PL tone for the repeater.

CW Class

There will be a code class beginning tentatively in mid-September (3rd week).

Preliminary numbers for the class show approximately 20 people. The class will run 5 nights a week.

2012 Christmas Dinner

The Christmas Dinner will be held at the Masonic Lodge in Candler at 6 PM.

As customary those attending you are asked to bring two dishes to the dinner.

A map and directions will be provided in the November edition of Smoketest.

Those interested in code should listen in to the Carolina Slow Net every night at 8 PM on 3.571.

Max - KE4GPU also recommends www.lcwo.net to start learning about code.

Norman - N4NH suggested getting a key in advance of the class. These can be purchased at the Shelby Hamfest through Ham World.

Jamboree On the Air

Jamboree On the Air will be on October 20th, WCARS members are asked to come out and support this event with the Boy Scouts.

Setup will be on Friday October 19th at the Agriculture Center near the Asheville Airport. During the even there will be a food vendor on site.

There will be a station for 20 m, 2 m and 40 m. If you are interested in participating in this event please let Scott know.

More information will be made available in the near future as to the exact location for setting up and operation times.

WCARS Information Net

The WCARS information net is needing some help from club members to call the nets on Monday nights, Dean - K2JB, who normally calls the net will not be able to for a few months due to work schedule conflict. If you can help out or you want to get your feet wet at calling a net this is a good net to do. If you can help out please contact Dean - K2JB (k2jb@arrl.net).

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**

From the Editor

Over the Labor Day weekend I was finally able to make some good progress with my packet station. From Black Mountain I was able to connect directly to Carl - N4AA in Leicester, we did some keyboard to keyboard chat and I was able to send mail to his station.

I've started working on the second part of the packet project, setting up Winlink. But that is going to require some more adjusting and figuring out as the software does not see the communications port the TNC is attached too.

Once I get that figured out the third part of my overall packet plan is to have Winlink available across a computer network. This part I've already got done, and works good except for the issue with Winlink not being fully setup.

JOTA will be the next big event for WCARS, I will be attending again this year and hope to see several of you there as well.

Just a reminder to WCARS members that the WCARS information net is held every Monday at 9 PM all are welcomed to call into the net.

And on Wednesday nights at 9 PM BCARES net is held, members are encouraged to call in and participate. If you are monitoring and the net is not called after a couple of minutes have passed with no one starting the net; you are encouraged to call the net and make a log of call ins. This is good practice in case there is a real emergency where the usual operators are not able to call the net.

If you have something you would like to send to Smoke Test please send it to kk4brd@gmail.com.

Silent Key

Hubert “Eugene” Rogers

(June 15, 1942 - December 29, 2011)

Hubert Eugene Rogers died at Laughlin Memorial Hospital in Greeneville, Tennessee, on December 29, 2011, after a year long battle with leukemia. Born in Murphy, North Carolina, June 15, 1942, he grew up in Morristown, and graduated from East Tennessee State University in Johnson City majoring in computer science. An avid photographer, he photographed for several newspapers, television stations, and publications throughout his life. He was an active and longtime member of the Lakeway Amateur Radio Club. He was preceded in death by his parents, Harry and Louis Rogers, and grandparents, Hubert and Maymie Jenkins of Morristown, and Hezekiah and Myrtle Rogers of Marshall, NC. He is survived by his sister and brother in law, Darlene and David Britton of Morristown, and nieces and nephews, Celesta and Samuel Thompson of Asheville, NC and Michelle and Bob Corley, and great nephews Britton & Brogan Corley of Franklin, TN, and several cousins in Tennessee and North Carolina. Visitors will be received at Mayes Family Services on Saturday, December 31st, between 1:00 and 2:00 P.M. A graveside service will follow at Middlesettlements Cemetery in Louisville, TN, where burial will be alongside his parents and grandparents. Memorial donations may be made to Lakeway_ARC, PO Box 1138, Talbott, TN 37877

Eugene’s callsign was KE4KHB. Eugene could be heard on ETN local nets, and routinely on the 6600 Saturday night net from Mt. Mitchell, NC. He was a regular at area hamfests, and active in Lakeway ARC activities.

N4SET ~ Steve

Regional Hamfests

Paulding County ARC Hamfest

When: September 15th
Where: Earl Duncan Park (Paulding Meadows)
724 Paulding Meadows Drive
Dallas, GA
Talk-in: 146.895 + (PL 77.0)

ARRL / TAPR Digital Communications Conference

When: September 21st to 23rd
Where: Sheraton Gateway Hotel Atlanta Airport
1900 Sullivan Road
Atlanta, GA

SEDCO / W4DXCC VIII Convention

When: September 28th
Where: Main Stay Suites
410 Pine Mountain Road
Pigeon Forge, TN

The Rock Hill Hamfest

When: October 6th
Where: Faith Assembly of Rock Hill
2800 Faith Blvd.
Rock Hill, SC
Talk-in: 147.030 - (PL none)

ARC of Augusta, GA Hamfest

When: October 13th
Where: Blythe Area Community Center
3129 Highway 88
Blythe, GA
Talk-in: 145.490 - (PL none)

Winston-Salem Classic Hamfest

When: October 13th
Where: Summit School Athletic Center
2100 Reynolda Road
Winston-Salem, NC
Talk-in: 146.64 (PL 100)
147.47 (PL 107)

Maysville Hamfest

When: October 14th
Where: Rotary Park Community Center
2 Blocks North of intersection of Hwy's 17 & 58
Maysville, NC
Talk-in: 144.710 (PL none)
145.310 (PL 82.5)

Al Brock Memorial Hamfest

When: October 20th
Where: Senior Center
406 Riverside Parkway NE
Rome, GA
Talk-in: 146.940 (PL 88.5)

Gray Hamfest

When: October 20th
Where: Bristol Motor Speedway
151 Speedway Road
Bristol, TN
Talk-in: 145.290 - (PL 103.5)

Hamfest Chattanooga 2012

When: October 27th
Where: East Ridge Community Center
1517 Tombras Avenue
East Ridge, TN
Talk-in: 146.79 - (PL none)



The ARRL Letter

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

Youth and Amateur Radio: North Carolina Teen Named Recipient of ARRL's 2011 Hiram Percy Maxim Award

08/30/2012

Derek Brown, W4DTB, of Chapel Hill, North Carolina, was named the recipient of the 2011 Hiram Percy Maxim Award. Derek, who is 14, has been licensed since 2010 and holds an Amateur Extra class license.

Derek first became interested in Amateur Radio after reading an article in *MAKE Magazine*. "After I read the *ARRL Ham Radio License Manual*, I went to the local club, the Orange County Radio Amateurs ([NCO CRA](#)) to take my Technician test," he told the ARRL. "That same evening, I met my Elmer, Bruce Meier, N1LN, who inspired me to finish the next two tests. He helped me build a station, including my first radio that I bought at a swap meet. With his help, I put up a vertical antenna in my backyard. Unfortunately, a tree knocked down the antenna about two weeks ago and broke the mounting bracket, so I'll be offline until after we get the replacement parts."

Meier recalled meeting Derek when he first came in to take his Technician exam in September 2010: "Derek had just turned 14. He had discovered Amateur Radio and was starting to get involved. His interest quickly grew, and by November 2010, he had his General ticket and then in March 2011, his Extra. In February 2011, Derek and his father went to a hamfest and found his first rig. Since Derek lives in an antenna-restricted area, he started to research different stealth antennas. As he wanted to start to work on his WAS, DXCC and WAC awards, and potentially get in involved in contesting (he got exposed to contesting at my QTH), he wanted something beyond stealth. So because of the woods behind his house, he was able to put up a vertical antenna and not bother any of the neighbors. He was now on the air."

Meier told the ARRL that Derek started out with SSB, but because of his skills in computers and computer programming, he became interested in the digital modes. "Derek modified his radio (by himself) and connected an interface board to enable the necessary control signals, wired up a home brew soundcard interface and was then able to operate digital modes," Meier explained. "He now operates PSK 31, RTTY PSK 63, Olivia 250, JT35 and even SSTV. Not bad for a 14 year old!"



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Youth and Amateur Radio: North Carolina Teen Named Recipient of ARRL's 2011 Hiram Percy Maxim Award (continued)

Derek is working on his CW skills, and recently earned his DXCC Award and only needs Vermont to complete his Worked All States Award. He also enjoys operating on the satellite modes, as well as developing software for his local HSMM Mesh.

Meier said that Derek competed with him and his team of operators in the 2011 CQ WW SSB contest. "We operated as a Multi/Two entry and were fortunate to place first in North America," he said. "Derek has also operated from his own home in the CQ WPX SSB Contest, the ARRL Rookie Roundup and several other contests."

Derek is also involved in public service activities. Meier's wife, Laurie Meier, N1YXU, was the ARES Emergency Coordinator for Orange County, North Carolina (she and Bruce are now Assistant Emergency Coordinators). Through them, Derek became interested in public service activities and started to take the various ICS courses. He has now taken and passed ICS 100, 200, 700, 800 and IS-3. Meier said that Derek is ready to help with ARES drills, public service events and ARES activations.

Derek is an active member of NCO CRA and his local ARES® group. He has worked with the club's public relations officer to revamp the club's website. He is the founder of the Youth Amateur Radio Club of America ([YARCA](#)), which aims to further youths in Amateur Radio; one of YARCA's initial target audiences is Scout troops. The site includes license test training and a Boy Scout Radio Merit Badge Workshop. Derek said he is currently planning for YARCA to hold a Badge Day for local Boy and Cub Scouts. He is also an ARRL Public Information Officer (PIO).

When not on the radio, Derek spends time as a Computer Science intern, where he is creating computer programs in a variety of languages. He is also a Lincoln-Douglas debater and will be traveling to tournaments across the country this year. He will be entering his freshman year at Durham Academy in Durham, North Carolina this fall.

The [Hiram Percy Maxim Award](#) is given to an ARRL member under the age of 18. It is intended to provide a tangible reward to those deserving young amateurs who contribute their time, skills and energies daily through their commitment to Amateur Radio. As models for their peers, and inspirations to us all, these fine young people are highly visible boosters of Amateur Radio awareness. The ARRL continues to recognize and encourage their hard work and contributions at every opportunity.



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On the Air: 2012 ARRL Field Day Logs Posted

More than 2600 submissions have been received for the 2012 running of [ARRL Field Day](#). According to ARRL Field Day Manager Dan Henderson, N1ND, this is another great showing for the number of entries received for what is one of Amateur Radio's most popular on-the-air operating events. The combined list of Logs Received for Field Day has been [posted online](#). The list includes all logs submitted via the www.b4h.net/ website, as well as those submitted via e-mail and US Mail.

Because Field Day is not a "Cabrillo-format" event, there is no automated robot for processing entries. When you go to the website to see if your submission was received, look near the bottom of the page under "Other Reports." Click on the link to open the PDF for the 2012 listings. If you find your listing is missing, please contact Henderson via [e-mail](#) or by phone at 860-594-0200. If you find a typographical error in your listing -- or if your log is marked as a "Checklog" -- please contact Kathy Allison, KA1RWY, via [e-mail](#). Logs marked as "Checklog" indicate that required information is missing that is still needed to properly process your entry. All problems must be resolved by Friday, August 31.

Henderson explained that the current list only shows general categories; the various sub-categories are added when the data is merged into the master database. Claimed scores or bonuses are also not included, as these are not publicized until the results are officially released. The results from the 2012 ARRL Field Day will be posted online on or around November 1, as well as in the December issue of *QST*. The 2013 ARRL Field Day is scheduled for June 22-23.



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VoIP Hurricane Net Provides Support During Hurricane Issac

08/31/2012

The [VoIP Hurricane Net](#) running on the *WX_TALK* EchoLink conference node 7203/IRLP 9219 was active over a two day period from Tuesday, August 28, through Wednesday, August 29, as Hurricane Isaac pounded the US Northern Gulf Coast with high winds, extremely heavy rainfall, significant storm surge and river and stream flooding. The VoIP Hurricane Net operated for more than 25 hours continuously during the US coast landfall.

Rob Macedo, KD1CY, Director of Operations for the VoIP Hurricane Net, was thankful for the overwhelming support received. “We owe a huge debt of gratitude to the [Crescent City Amateur Radio Group - CCARG](#) and the N5OZG repeater system,” he said. “They provided a significant number of reports from Southeast Louisiana and the New Orleans area. The EchoLink node on their repeater system, maintained by Joe Glorioso, N5OZG and other CCARG amateurs, remained active throughout the duration of the event.”

“We’d also like to thank all net controls and other stations who also supported the VoIP Hurricane Net,” Macedo added, “Including those with listen-only nodes that allowed many more people to monitor our activities without impacting operations. Their cooperation is appreciated.”

Hams throughout the area contributed to the effort. John McHugh, K4AG, the WX4NHC Coordinator, noted that “A report from Doug Arnold, KE7DCZ, of a measured wind gust of 80 MPH in Jefferson Parish, Louisiana was utilized in one of the National Hurricane Center advisory estimate updates during the overnight hours.”

Amateurs such as Gary Shuford, KM5ME, a private meteorologist and weather observer for the National Weather Service, did everything possible to remain on the air and render their services. After losing commercial electric power, Gary switched to a portable generator and continued to submit reports to the net. He reported a wind gust of 107 MPH in Gretna, Louisiana around 4 AM CDT on Wednesday, August 29, with more than eight inches of rain recorded.



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VoIP Hurricane Net Provides Support During Hurricane Issac (continued)

Among a number of repeater systems active in the area, the W5YL system maintained its connection to the VoIP Hurricane Net, acting as a conduit for additional weather data and damage reports from the affected areas. The W5YL system covers Terrebonne, Lafourche, Assumption and St Mary parishes.

Julio Ripoll, WD4R, Assistant WX4NHC Coordinator, thanked the VoIP Hurricane Net for their efforts. "All reports are being printed and submitted to the hurricane specialists," Ripoll said. A complete list of the reports received during Hurricane Isaac can be seen in the [VoIP Hurricane Net Report Viewer](#).

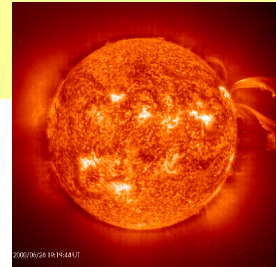
ARRL Headquarters Activities

Long before Isaac made landfall ARRL Emergency Preparedness staff in Newington, Connecticut were monitoring the progress of the storm and staying in touch with amateurs in the Caribbean. As Isaac moved closer to landfall, contact was made with section staff in the path of the storm.

Beginning on Friday, August 24, daily updates were sent to section staff and conference calls were held with national-level served agencies and partners. "Regular contact with section staff, WX4NHC, VOIP WX net, Hurricane Watch Net, and our served agencies helps us develop situational awareness and respond accordingly," said Mike Corey, K11U, ARRL Emergency Preparedness Manager.

As Isaac impacted Louisiana and Mississippi, a need for qualified net control stations in the Delta Division was identified. By reaching out through the website, e-mail and social media, volunteer net-control stations were quickly identified and put in touch with the net manager. "It was good to see contesters also step forward and volunteer," reports Corey. "Their sharply honed operating skills were put to good use."

Solar Weather



NOAA Solar Forecasts

Sunspot Number: 112

Updated at: 2012 Sep 7

Spotless Days

Flare	0-24 hr	24-48 hr
Class M	30%	20%
Class X	01%	01%

Current Stretch: 0 days
 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 7 Sep 2012

Geomagnetic Storms

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

Interplanetary Magnetic Field

B_{total} : 6.0 nT B_z : 5.1 nT south

High-latitudes	0-24 hr	24-48 hr
Active	15%	20%
Minor	25%	20%
Severe	20%	10%

The Radio Sun

10.7 cm flux: 133 sfu

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

SMOKETEST

Official publication of the

Western Carolina Amateur Radio Society, Inc.

PO Box 1488, Asheville, NC 28802

www.wcars.org

W 4 M O E

Repeater: 146.91 (PL-91.5)

Spivey Mountain, Asheville, NC

2012 OFFICERS

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Hamfest Chairman - 2013	Jeff Weller	KJ4TEI	683-5271	weller_j@bellsouth.net
Smoke Test Editor	Paul Tilley	KK4BRD	712-0477	kk4brd@gmail.com

HF/VHF/UHF Net Information				
<u>NET NAME</u>	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
Blue Ridge Weather Watch	145.190 -	T-T	9-PM	Directed net, Skywarn, everyone welcomed

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	
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	