



WCARS.org  
April 2012

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

### President's Microphone

We need a few good people to give us a program or two while our VP recovers if you are willing please let me know see you all in May.

Thanks,

Scott

**Meeting for May is on the 24th  
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.**

### Meeting Minutes for April 5, 2012

The meeting was called to order at 1931 hours by President Scott McCabe,

W4IYS. The meeting was held in the meeting room of the West Asheville Library.

Each attendee was then invited to recite the Pledge of Allegiance to the Flag.

Each attendee was then asked to introduce themselves giving a name, call sign (if any), and QTH.

The Treasurer's Report was then given by Steve N4SET, WCARS Treasurer.

The announcement was made that the Disaster Emergency Response Association (DERA) is planning a 50th anniversary meeting for June 15-17 in Asheville.

### BC-ARES

By Carl Smith, N4AA, EC Buncombe County

The Buncombe County ARES group is moving right along with a number of "activities" that will certainly keep us busy for some time.

The first thing on the agenda is the Meals on Wheels bike ride coming up on May 11<sup>th</sup>. Dick Burns, K8SKX is the Point Man for this activity. He has a number of volunteers now, but can always use more ... just in case. Please contact him and offer your help.

Our next project is PACKET. We have come very good reasons for pursuing PACKET here in Buncombe County.

## Meeting Minutes for March 1, 2012

## BC-ARES

WCARS members are encouraged to attend at NO CHARGE and are welcome.

The workshops will be held on June 15-17. For general information on these workshops:

<http://www.disasters.org/dera/workshop.htm>

Scott has information on operating on 60 meters. Contact Scott if you are interested in 60 meter operations. (included in this edition of Smoke Test)

On Saturday, May 12, QCWA will be holding a surplus sale from 0900-1700 --rain or shine--to raise money for the Southern Appalachian Radio Museum (SARM).

Steve N4SET announced that there will be a demonstration in Black Mountain for the public with Buncombe County ARES/Skywarn/and other information. The demonstration will be set up on State Street in Black Mountain.

The next WCARS meetings have been set on the calendar for May 24, June 14, and July 5.

Dick K8SKX/ARES announced that there would be a Meals-On-Wheels ride on 146.91. He has 12 operators signed up but needs a minimum of 15 operators. Contact Dick at <K8SKX@arrl.net> if you are willing to help.

New operators are reminded of the Carolina Slow Net on 3.571 MHz each night at 2000 hours. Unlicensed operators can use this net for learning and practice. Remember you must be at least a GENERAL to transmit on this frequency.

Scott reported that the Executive Committee has authorized an order for WCARS hats and WCARS coffee cups. A future order for WCARS jackets will be considered once more information is received as to minimums, costs, and sources.

By Carl Smith, N4AA, EC Buncombe County

First, Mission Hospital has expressed an interest in installing a WINLINK Packet system for emergency purposes. This comes after the hospital in Spruce Pine showed them a presentation on what is in service up there.

Second, Jerry VeHaun has expressed an interest in having the WINLINK Packet available at the Buncombe County EOC. This comes as a result of an actual demonstration during an exercise we had last year. At that time the internet service used to pass information to the state EOC went down. It just so happened that on that day, Russ, N4KOX had setup a WINLINK Packet station at EOC and was able to pass the information from our EOC to the state EOC using that station. It seems everyone was somewhat surprised at the results and now there is more interest in making that station a permanent fixture in our program of providing communications at EOC.

Third, the Red Cross is interested in having a secure means of communicating from their HQ to potential shelters during periods of emergency. The WINLINK Packet system would serve this purpose as well.

SO, with the above potential services in our future, we are now experimenting with a number of our group who have PACKET capability to see just how it can all work together. This will require some education and we have been promised whatever we need in that area by the folks in Spruce Pine who have been working with Packet for some time.

We are having weekly training sessions, after the regular Wednesday evening net. This training is varied and we hope it is informative and helpful to everyone, especially the newer members of our group. Some of the training comes with information being forwarded to the members and some will come as a "surprise" just to keep everyone on their toes.

## Meeting Minutes for March 1, 2012

The 50-50 drawing and the WCARS coffee cup were both won by Terry England.

There being no further business for the Club, a motion was received and seconded and the meeting was closed at 2029 hours with refreshments and fellowship following.

SUBMITTED BY BOB DOCKERY - WD4CNZ,  
WCARS SECRETARY

### From the Editor

More help is needed by WCARS for Multiple Sclerosis walk, Meals on Wheels Relay, Field Day and the Ham Fest, if you can help out it would be very much appreciated. Contact information for the various events can be found under the event heading in this issue of Smoke Test.

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](mailto:kk4brd@gmail.com).

## BC-ARES

By Carl Smith, N4AA, EC Buncombe County

Thanks to all of those who have been working with us on a regular basis and we welcome any newcomers who are interested in helping with the projects we are working on for the future.

Our next monthly meeting will be on Thursday, April 19<sup>th</sup>, at 7-PM. This time we will meet at the EOC classroom where we have all of our equipment. I encourage all of you to come and be with us, as we will be going over a lot of details regarding the projects mentioned above.

73,  
Carl, N4AA  
EC - Buncombe County

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See map on last page for location and directions.

### Corrections

There are two corrections for this issue of Smoke Test:

- 1) Dick - K8SKX will is not net control, for the Meals on Wheels Relay, I misunderstood the information I was given. He is the contact person for signing up to help out.
- 2) The offset on the Mt. Mitchell repeater is - and not + in the repeater section of Smoke Test.

## 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**

## Field Day 2012

By Carl Smith, N4AA, EC Buncombe County

I am still looking for support for Field Day ...  
the last weekend of June.

I need one volunteer to take charge of the  
GOTA (Get On The Air) station.

This should be an important part of our  
activity and I need someone to set up a station  
and talk to folks to have never been on the air,  
don't have a station of their own, etc. This  
can be a very big step for a lot of folks. We  
have a class running now and at least some of  
those folks just might be interested in finding  
out what it's like to operate the HF bands.

I also need someone to get publicity for us in  
the local paper(s), on the local radio stations  
and perhaps even on TV.

Thanks to those who have stepped forward  
already.

CAN YOU HELP ? ?

Call me Carl Smith, N4AA 683-0709, or  
email me at [carl\\_n4aa@charter.net](mailto:carl_n4aa@charter.net)

## Meals on Wheels Relay

Meals on Wheels Wheel Ride for Food May  
12, 2012 BCARES will be use this as another  
practice exercise for communications using  
primarily 2m voice both simplex and on  
146.91. We are going to test the 2m simplex  
coverage from the EOC. This will be  
valuable if/when the area experiences a  
widespread power outage and  
communications disruption.

The ride consists of three courses: 30 miles,  
70 miles and 105 miles leaving from Carrier  
Park (Amboy Road) and going into Madison

## Meals on Wheels Relay

County. BCARES will provide communications from 4 rest stops: Alexander Baptist Church, Marshall Island, Weaverville Fire Department, and Ox Creek at the Parkway. It has not been decided if a rest stop will be provided at Beech Glen Baptist Church. We will probably also provide communications from a sweep vehicle and 2 SAG vehicles plus the start/finish point.

BCARES is looking for a few more volunteers who are interested in learning/practicing emergency communications skills. Contact Dick K8SKX if you are interested: K8SKX@ARRL.NET

73, Dick K8SKX

## Hamfest 2012

Update by Randy - KI4VLW

Vendors that are confirmed to attend the Hamfest are:

AC/DC Electronics  
DEBCO  
DBJ Electronics  
TAW Electronics  
Ham World  
The Wireman  
Satellite Sam

We still need volunteers to help out with the Hamfest, please contact Randy - KI4VLW at 828-298-6685 or e-mail [rtsp71@aol.com](mailto:rtsp71@aol.com).

## Regional Hamfests

15th Annual Catawba Valley Hamfest will be April 21st

Saturday 8:00 AM

At the Burke County Fairgrounds - 145 Bost Road, Morganton.

VE Testing will be on site.

Talk-in - 147.150+

Information - 146.415 (Simplex)

Parking Lot - 146.400 (Simplex)

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2012 Upstate Hamfest will be Saturday May 5th at the Piedmont Interstate Fairgrounds in Spartanburg, SC.

Talk-in is available on 146.610 Primary or 146.820 Backup.

## Notable Keys

Frank Gunther - W2ALS

Is one of the communications and FM pioneers, in the mid 1920s while working for Radio Engineering Laboratories in Long Island City, NY he built and operated experimental stations and was among the first shortwave broadcasting systems.

In 1931 he took part in the first public broadcast from an aircraft and also installed one of the first airborne two-way radio in 1932.

Also in 1932 he is responsible for establishing the first mobile two-way police communications system in 1932, opening up VHF mobile spectrum.

## Multiple Sclerosis Walk

The Multiple Sclerosis Society of the Greater Carolinas, will be hosting the annual MS Walk fundraiser in Asheville on Saturday, April 21st. A change in in policy now requires radio support at all the MS walks for addition safety.

The walk is a 1 mile loop. And the MS Society would like 3 radio operators including net control if possible, the time frame would be 9am-12:30pm.

The Multiple Sclerosis Society of the Greater Carolinas will give t-shirts, lunch, and loads of appreciation to our radio operators!

2012 Walk MS: Asheville, NC

### Event Details

Date: Saturday, April 21, 2012

Location: Carrier Park

Address: 235 Amboy Rd., Asheville, NC

Registration Opens: 8:00 a.m.

Walk Begins: 9:00 a.m

WE NEED SOME HELP WITH THIS PLEASE CALL ME OR E\_MAIL 231-7216  
esmccabe@charter.net please

Scott - W4IYS

## A Cheap Indoor Dipole for 80m - 15m

Written by Josh - KJ4VAC

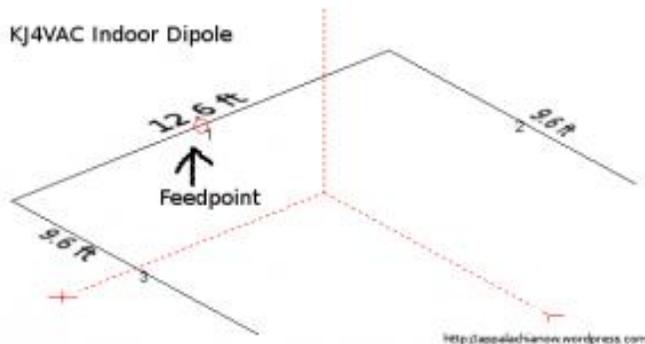
I finally got my hands on an HF transceiver last week. It's a gently used IC-735, with CW, SSB, AM, and FM on all bands 160-10 meters with the exception of 60 meters. It has had the MARS modification done on it, so it will transmit on any frequency between 100 kHz to 30 MHz. It has a max power output of 100 watts in CW, SSB, and FM modes, and 40 watts in AM. A handy rig to have for a ham who's just starting out. It's certainly not as spiffy as the brand new DSP rigs with huge LCD displays and power computers under the hood, but there are more than enough features to satisfy the beginning to intermediate operator.



Since I got the rig on the air on March 10th, I've had six contacts with my straight key, each in a different state, so I only need 44 more states to get WAS!

But I'm getting ahead of myself. The fanciest, most expensive rig on the planet isn't worth a hill of beans without an antenna to send and receive signals. I've avoided HF for a long time because I assumed the antenna requirements would be too costly in terms of space and money. I live in a townhouse with no attic, no basement, and a postage stamp yard, and putting up antennas outside is entirely out of the

question. There simply isn't enough space to string up a full sized dipole indoors for most of the HF bands. I had the inspiration, however, to try setting up an antenna for 20 meters, which is a popular HF band and should also resonate on 10 meters if designed carefully.



You can see the design here. It's a semi-square with a 12.6' base leg and

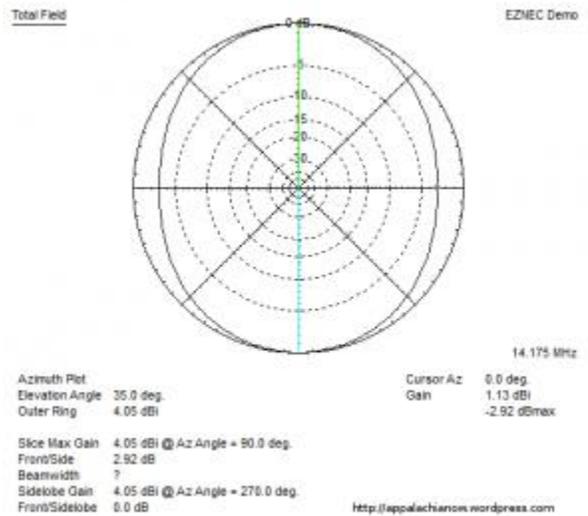
two 9.6' legs at 90 degrees. At my shack the base leg runs east to west, and the two shorter legs run north to south. It hangs 7.25' above ground level around the ceiling, suspended with no-damage .5 lb plastic hooks attached to the wall. Obviously this isn't a very ideal setup, but the results speak for themselves I think. Sure, other setups will have less noise and a lower takeoff angle, but I've had signal reports of 579 and above from as far away as California. With a tuner, I've been able to load it up on all bands between 80 and 18 MHz with full power and an SWR no higher than 1.3:1.

## A Cheap Indoor Dipole for 80m - 15m

Written by Josh - KJ4VAC

Your mileage may vary, and with indoor antennas a lot of things must be taken into account such as wiring inside the walls, what material the walls and exterior of your building are made of, how many floors are above and below you, and most importantly of all, especially in an apartment situation you must take the RF exposure into account for both yourself and your neighbors. With all of these factors in mind, however, there's no reason any ham with a room at least 12'x16' can't put up a modest antenna to at least get started on their WAS certificate.

The radiation pattern is pretty close to omnidirectional, which is what I was shooting for in my setup. This increases the noise level somewhat, but allows for contacting stations at all points of the compass, any time of day, without having to rotate the antenna. In point of fact, however, because the antenna isn't secured to anything permanently the feedpoint can be shifted left and right to adjacent hangers to provide some slight directivity in the direction of the leg that gets shortened in this process. In this scenario, however, any gain this antenna might provide is pretty much lost, so I wouldn't recommend trying this unless you want to experiment.



I used very inexpensive and easy to find materials to put the antenna together. The antenna itself is made of #14 7-strand copper-clad steel available currently at 24 cents a foot. I bought 100' since the price drops to 19 cents per foot and you can never have too much antenna wire laying around. The kit of 16 clear no-damage 1/2lb hooks cost \$6 from the hardware store. I also got a bag of ten 1/2" PVC couplings to act as standoffs and supports where needed. This bag cost \$2. For the feedline I used a standard 6' RG 8/U coax line I bought from Radio Shack a

while back for around \$6. I had to cut one of the ends off and strip it for the feedpoint itself, but the other end has an PL-239 on it conveniently.

## A Cheap Indoor Dipole for 80m - 15m

Written by Josh - KJ4VAC

Altogether I spent around \$20 for the entire antenna, not counting tools I had laying around already. If you don't have any tools, at the very least you will need a wire cutter and stripper, and preferably a set of pliers, a drill and bits, and some electrical tape.

Once you have all the parts, antenna construction is pretty simple. I measured and marked spots every two to three feet and hung up the no-damage hooks. I had a problem at first at the corners because I ran the wire directly through the hooks. There was too much strain and after about 20 minutes the hooks came flying off the walls with the wire. Not a safe situation so be careful of this. I solved this issue by using one of the PVC couplers at each corner, and using a short bit of wire or string looped through the coupler and over a sturdier hook that actually screws into the wall. This supports the wire away from the wall and relieves some of the strain on the hook. I used a similar technique to hang the feedpoint and center of the dipole. The coax goes up through the middle of the coupler and is split at the top. The two antenna wires enter the coupler through holes drilled in the sides, then go up and over the top where they meet with the shield and center conductor of the coax. Two more sets of holes provide tie points for a short bit of wire from which the hole assembly hangs. This means the center point can be moved back and forth between the different hooks as mentioned before, very easily.

I haven't contacted any juicy DX with this antenna yet, but considering how inexpensive it was, and that it only took me about two hours to put it up, I'm more than satisfied with the performance so far. I've gotten great signal reports and have had no trouble making at least one or two contacts every night, without trying very hard. I'm sure there are many improvements that could be made to this design, and I encourage everyone to experiment with it and share your results with me. However, if you're short on cash after dumping your allowance on a rig, this design should provide plenty of inspiration to anyone who thinks they can't put up an antenna.



## Event Day in Black Mountain



In spite of being called an “obsolete technology”, “destined to extinction”, with “waning interest”, or other descriptive term, Amateur Radio is alive and well in the US.

With over 700,000 licensed operators, the amateur service still embodies the spirit of the Amateur’s Code.



The American Radio Relay League (ARRL), Founded in 1914, is the national association for Amateur Radio in the USA. Today, with more than 156,000 members, ARRL is the largest organization of radio amateurs in the United States. The core purpose of the ARRL is to promote and advance the art, science and enjoyment of Amateur Radio.



The Amateur Radio Emergency Service® (ARES) consists of licensed amateurs who have voluntarily registered their qualifications and equipment, with their local ARES leadership, for communications duty in the public service when disaster strikes.



The ARRL National Traffic System (NTS) is a well-organized system for routing formal written message traffic (radiograms) from any point in the United States to any other. Messages are relayed from one ham to the next, using a variety of modes such as voice, Morse code, radio teletype, or other digital radio modes. The NTS has existed since the earliest days of radio. The NTS operates 24/7, 365 days a year and is used by thousands of people, hams and non-hams alike, to send and receive brief greeting messages (happy birthday, congratulations, etc.) Messages must be non-commercial in nature (as defined in the FCC rules).



Local clubs continue the tradition of providing a wealth of knowledge when seeking education, assistance to new operators, social interaction, and exchange of information on various aspects of Amateur Radio activities.



Although not specifically required to participate, many Skywarn volunteers are licensed amateur operators. When conditions warrant, Skywarn communications nets are activated to forward essential weather condition information to Weather Service Centers.

## Event Day in Black Mountain

More than the original Morse Code (CW), today's ham can enjoy a multitude of operating modes. Voice (AM, FM, SSB, etc.), data (Packet, PSK 31, AMTOR, PACTOR, RTTY, etc.), imaging, slow/fast scan TV, FAX, WEFAX, etc.) Communications may be local or long distance (DX), by direct radio contact, repeater retransmission, or by internet, atmospheric bounce, moon-bounce, satellite, or other methods. Even email is possible using an application such as Winlink. All that's required is a gateway into the internet to function just as on a personal computer.



Amateur Radio Field Day, held each year during the 4th full weekend in June, is a contest, an emergency exercise, a public demonstration, a club event, or a fun way to get on the air.

Hams set up in remote locations without commercial power, and operate for 24 hours. This year's event is set for June 23-24, 2012. The Buncombe County Field Day site will be the Emergency Operations Center Training grounds, on Erwin Hills Road.

In conjunction with the Buncombe County Amateur Radio Emergency Services Group (BCARES), the Western Carolina Amateur Radio Society (WCARS), and local Skywarn volunteers, a public information day is scheduled for:

**WHEN: Saturday, May 5, 2012, 0900 - 1400**

**WHERE: Black Mountain, NC**

**ADDRESS: The corner of E. State Street (US 70) and West State Street, in front of the Public Service Building.**

N4SET will have a canopy, VHF equipment, 2KW generator, 12vdc charger, and a few other items. There will be handouts, brochures, and maybe some DVDs available to the public.

Anyone who would like to participate, come by for a visit, stop in for (or bring) coffee, doughnuts, or just to say hello is welcome. The purpose of this event is primarily to provide a way for amateur radio and Skywarn to become visible in the community. Feel free to bring equipment to operate or just to display. Any additions are welcome. This is a permitted activity, governed by the Town of Black Mountain. Erection of more than a modest antenna or operation of other than quiet mode generators is usually not allowed. But if this were easy, anyone could do it. Thanks all.

See you there.

**N4SET** ~ Steve



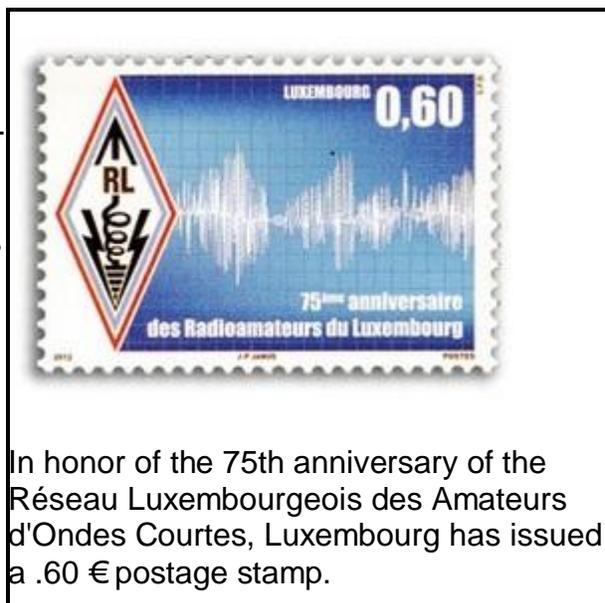
## The ARRL Letter

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>

### *Luxemburg Issues Stamp to Celebrate 75 Years of Amateur Radio - 03/29/2012*

Founded in 1937, the Réseau Luxembourgeois des Amateurs d'Ondes Courtes (RL) -- that country's IARU Member-Society -- is celebrating its 75th anniversary. In honor of this milestone, Luxembourg's Entreprise des Postes et Télécommunications (P&T Luxembourg) has issued a .60 € postage stamp (about 80 cents in US currency); P&TLuxembourg is that country's government owned corporation for mail and telecommunications. This is one of three commemorative stamps issued by Luxembourg in 2012 .



In honor of the 75th anniversary of the Réseau Luxembourgeois des Amateurs d'Ondes Courtes, Luxembourg has issued a .60 € postage stamp.



## The ARRL Letter

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

### *NTIA: No Objection to Additional Data Modes on 60 Meters - 03/29/2012*

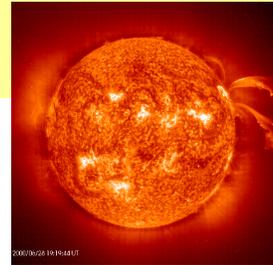
In response to requests for clarification from the ARRL, the National Telecommunications and Information Administration (**NTIA**) has confirmed that it has no objection to the use of a broader range of data emissions by amateurs on the five 5 MHz frequencies on 60 meters. ARRL's original understanding was that the NTIA preferred that the use of 2K80J2D emission be limited to Pactor III. The NTIA now says that that is not the case.

In an e-mail response to ARRL Chief Executive Officer David Sumner, K1ZZ, Karl Nebbia, Associate Administrator of the NTIA Office of Spectrum Management, stated, "NTIA has no interest in limiting the types of emission used by the amateurs as long as the data emission does not exceed the 2.8 kHz bandwidth generated by the upper sideband transmitter." Nebbia referred all further inquiries to the FCC, which "...sets the conditions for use of the five 5 MHz frequencies by the amateurs."

The requirement of only one signal per channel remains, as well as the prohibition against automatic operation. The FCC continues to require that all digital transmissions be centered on the channel-center frequencies, which the Report and Order defines as being 1.5 kHz above the suppressed carrier frequency of a transceiver operated in the Upper Sideband (USB) mode. This is typically the frequency shown on the frequency display.

Channel	USB Suppressed Carrier (kHz)	Center (kHz)
1	5330.5	5332.0
2	5346.5	5348.0
3	5357.0	5358.5
4	5371.5	5373.0
5	5403.5	5405.0

# Solar Weather



NOAA Solar Forecasts

**Sunspot Number: 28**

Updated at: 2012 April 11 2200 UTC

**Spotless Days**

Flare	0-24 hr	24-48 hr
Class M	01%	01%
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 05 March 2012

Geomagnetic Storms

Mid-latitudes	0-24 hr	24-48 hr
Active	25%	30%
Minor	05%	10%
Severe	01%	01%

**Interplanetary Magnetic Field**

$B_{total}$ : 8.8 nT       $B_z$ : 5.2nT south

High-latitudes	0-24 hr	24-48 hr
Active	40%	40%
Minor	20%	20%
Severe	10%	10%

**The Radio Sun**

10.7 cm flux: 93 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	Band Closed
6 m EsEU	Band Closed	Band Closed
4 m EsEU	Band Closed	Band Closed
2 m EsEU	Band Closed	Band Closed
2 m EsNA	Band Closed	Band Closed
EME Deg	Very Poor	

# ***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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<b>Smoke Test Editor</b>	<b>Paul Tilley</b>	<b>KK4BRD</b>	<b>712-0477</b>	<b>kk4brd@gmail.com</b>

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
Blue Ridge Weather Watch	145.190 -	T-T	9-PM	Directed net, Skywarn, everyone welcomed

<b>Regional Repeater List</b>		
<b>Frequency / offset / PL</b>	<b>Location</b>	<b>Notes</b>
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	

# Map to EOC

Talk-in on 146.91 (PL-91.5) if needed

**164 Erwin Hills Road, Asheville, NC 28806**

The EOC is a **LARGE brick/rock building on the left inside a chain link fence with a roll-back gate across the driveway.**

**Buncombe County  
ARES Meeting  
Thursday, January 19th  
7 to 9 PM**

**In West Asheville  
Turn onto NC Highway 63  
(New Leicester Highway)  
Please watch your odometer.**

**This intersection is roughly 2 miles from PATTON AVENUE (Ingles supermarket at that intersection)**

ERWIN HIGH SCHOOL

EOC

Traffic Light

Traffic Light

West Buncombe Elementary School

New driveway to elementary school

Traffic Light

Traffic Light

Traffic Light

Traffic Light  
Exxon Gas  
Papa's Pizza