

The Signal Report

A Publication of the Greenwood Amateur Radio Society

VOLUME 12 ISSUE 6

JUNE

HTTP://WWW.W4GWD.ORG

W4GWD@ARRL.NET

2016 CLUB OFFICERS

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The W4GWD Repeater Network

147.165+ t107.2

Echolink: 584003

443.900+ t107.2

W4DEW/R

146.910- t123.0

W4GWM/R

145.420- DV

Digital Update

D-Star is **UP!**

Echolink is up.

APRS iGate is up

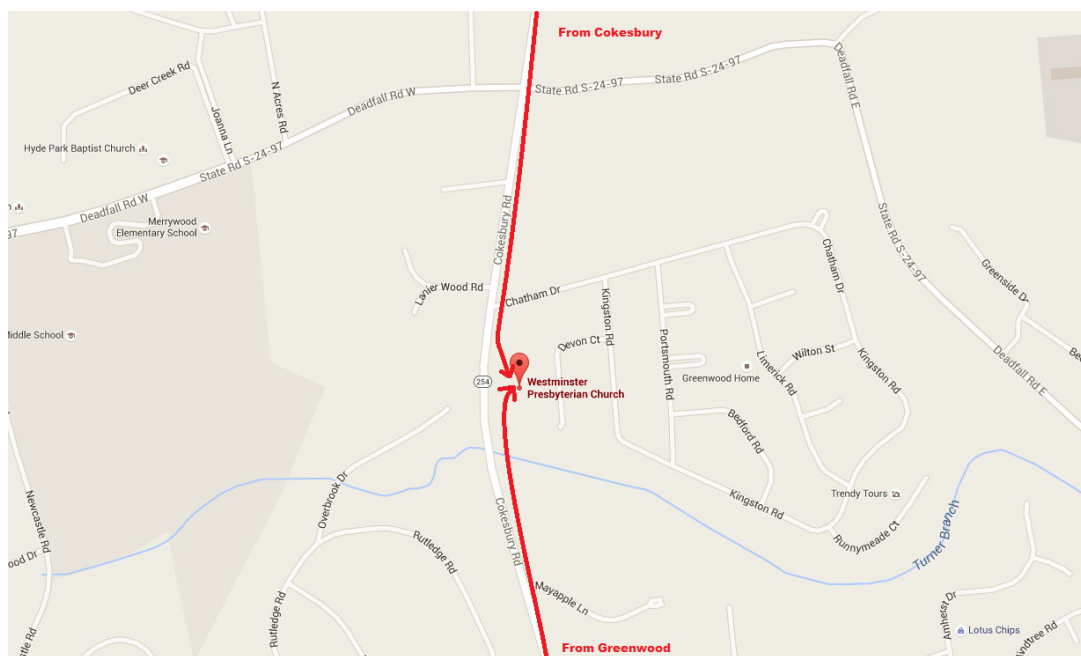
WJ4X-7 Packet Node is up connected to the Carolinas Packet System. 145.010

Downtown Digi coming soon.

DUES ARE DUE! Please contact Tedd, AI4WN to renew

June Meeting

This month's Club Meeting will be held at the Westminster Presbyterian Church, located at 2330 Cokesbury Rd, Greenwood, SC. The new meeting date is on the 2nd Tuesday, which will be the 14th this month. Meeting starts at 7:30 Sharp.





Like us on
Facebook

facebook.com/
GreenwoodARS

Society Events:

Chat 'N' Chew

Every Friday at 11:30am the members of the Greenwood Amateur Radio society meet at **Ryan's**, Bypass 25 NW, Greenwood.

Everyone is welcome to have lunch or sip your favorite beverage and chat for a while. **(Dutch treat).**

Weekly Nets

Each Thursday night at 9pm on the 147.165+ machine,

The Greenwood Amateur Radio Society holds our weekly 2 meter net.

Our UHF net on 443.900+ is held Mondays at 8pm

Congratulations

Happy Birthday!

Kevan Nason	N4XL	June 6
David Russ	K4DWR	June 9
Richard Bowie	KK4BMK	June 10
Jim Cox	W3COX	June 14
Adam Shirley	WJ4X	June 15
Angie Barrouk	KG4VLN	June 17
George Crane	W4RXF	June 20
Di Litwer	N4DLL	June 24
Karla Cox	WB3LNX	July 4
Stephen Lyda	KI4ZSY	July 4
Emile Barrouk	KG4FZD	July 5
Homer Banks	WB4MLU	July 10
Kevin Simpson	KJ4GAQ	July 14
Betty Jean Powell		July 15
Dustin Mosley	KM4LWJ	July 17
Mitch Litwer	KJ4JGP	July 24
Nathan Hermann	KK4ZZP	July 26
Jeremy Manning	KI4CCZ	July 28
John Penman	KC0CBD	July 30

Happy Anniversary!

Earl and Betty Jean Powell	June 5
Tedd and Gail Davison	June 15
Dustin and Laura Mosley	June 20
Brab and Elaine Dukes	July 6
David and Brenda McCall	July 7
George and Betty Crane	July 11
Kevin and Yvonne Simpson	July 12
Joe and Wendy Suddeth	July 12
Fred and Mary Pinson	July 18

Phil's Corner:

Hamisms #54581

If the smaller hammer fails, use a larger hammer.

GRAPE Project

from the Kevan, N4XL

The 2017 Great Radio Atmospheric Propagation Experiment

The original idea for this experiment started in the United Kingdom with a partial eclipse on August 11, 1999 by the Ofcom Radio Communications Research Unit (RCRU) at the Rutherford Appleton Laboratory. Dr. Ruth Bamford and her team produced a final report of this project which is still available today at: RCRU Project 48. On March 20, 2015 the United Kingdom will experience another partial eclipse and conduct another similar experiment. The new project will have many of the same objectives as the 1999 experiment. The Radio Society of Great Britain (RSBG) will coordinate the activities for this event

The mainland of the United States will experience a total eclipse that will span the entire continent starting at 16:04:00 UTC on Monday, August 21, 2017. The zone of will span an area of about 2500 by 73 miles (182,500 square miles). Each location in the zone of totality is projected to have 2.5 hours of partial with 2 minutes of totality. The US Naval Observatory (USNO) and NASA GSFC websites are providing information on the event.

The Great Radio Atmospheric Propagation Experiment (GRAPE) will afford the opportunity to greatly expand the observation database and scope of the UK eclipse projects due to the totality pathway and duration of the eclipse. One of the true benefits of this project is education in Solar Astronomy and Amateur Radio. There is an estimated 700,000 licensed ham radio operators and 24,000 solar astronomers in the US. There are many college and educational organizations that have space and solar programs. Ham radio operators and club organizations provide emergency communications functions and support global radio enthusiasm and education.

With numerous fixed and portable amateur radio stations available today, a vast network exists both within and outside of the projected path of the 2017 eclipse. In addition to amateur stations there is a large network of fixed broadcast stations and beacons such as NIST WWV time signals.

Similar to the UK experiment, anyone can participate and be of great value to the GRAPE project and possibly enjoy the spectacular experience of an eclipse in their community. One does not have to be a ham or a scientist to observe, record, and submit information to help gain a greater understanding our home planet. As the moon transits between the sun and earth, the outer bands of the atmosphere (ionosphere) will change temperature from day to night then from night to day in about 2 hours and 30 minutes. During that time radio stations will experience the conditions to send their signal a greater distance (propagation) similar to night time. Even over the air digital television and radio broadcast signals will increase audio volume (distance) during or just after sunset each day and decrease at sunrise. What is of great interest during the eclipse event is how far these signals travel, how quickly the station gets stronger or weaker, and especially what happens as the event ends and the atmosphere increases in solar heating back to normal day time. This project is comprised of before, during, and after (BDE) observations and measurements in a relatively short period of time.

Please visit the GRAPE website for more information, maps, and how to participate in this wonderful research project. <http://www.sweoc.org/GRAPE.html>

HAMFESTS and EVENTS:

Mark your Calendars! Greenwood Amateur Radio Society Hamfest at Piedmont Technical College January 2017

07/30/2016 WCARS Hamfest Haywood County Fairgrounds 758 Crabtree Road Waynesville, NC 28785 <http://wcars.org/> Western Carolina Amateur Radio Society Talk-In: 147.39 (PL 94.8) Contact: Zach Thompson, KM4BLG 828-667-0256 km4blg.hf@gmail.com

09/03-04/2016 Shelby Hamfest Cleveland County Fairgrounds 1751 East Marion Street Shelby, NC 28150 <http://shelbyhamfest.org> Shelby Amateur Radio Club Talk-In: 146.88 (no pl) Contact: Ben Melvin, KM4C 704-477-1813 km4c@me.com

Greenwood Amateur Radio Society Meeting Refreshments List:

2016

The list will return when we have a permanent location

Let's fill those open slots!

Send an email to adam@wj4x.net to reserve your spot!

We will ask for volunteers for the refreshments list over the next few weeks, so be thinking of what month you'd like to volunteer!

Packet Cluster:

- ◆ The American Radio Relay League protects our rights as Amateur Radio Operators <http://www.arrl.org>
- ◆ Support for SERA supports proper coordination! <http://www.sera.org>
- ◆ Remember your local and regional interest clubs!
- ◆ Southeast DX Club <http://www.sedxc.org>
- ◆ Spread The Word! 147.165 Net Thurs. 9pm
- ◆ Callsign info <http://www.ae7q.com>
- ◆ Track us on APRS: <http://aprs.fi>

Classifieds:

2 Meter whip antenna for sale, Best Offer. Contact Stephen Lyda KI4ZSY stephenlyda@yahoo.com



If anyone has any Ham radio stuff to sell or trade... list it in this column by calling Buddy, w4dew@arrl.net, 864-445-7574

If you want to see your article or wish to advertise in The Signal Report, please send an email to the newsletter staff via newsletter@wj4x.net