

Nacogdoches Amateur Radio Club

2010 CLUB OFFICERS

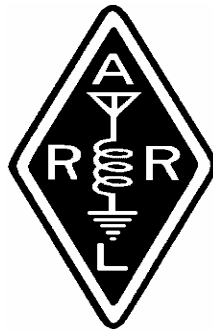
Pres: Rusty Sanders - KD5GEN

VP: John Jordan - N5AIU

Sec/Treas: Army Curtis - AE5P

MISSION STATEMENT

The Mission of the Nacogdoches Amateur Radio Club is to support and promote Amateur Radio by public service, offering training to unlicensed interested parties and licensed amateurs, mutual support of other amateurs, engaging events that promote amateur radio to the general public and other amateur radio operators, and continuing fellowship by regularly scheduled organized meetings and events.



JUNE MINUTES

The June meeting of the Nacogdoches Amateur Radio Club (NARC) was held as scheduled on June 2nd. **President Rusty, KD5GEN**, opened the meeting at 7:00 p.m. in the Parish Hall of Christ Episcopal Church. Twenty members and two guests were present. Each person present introduced himself. Minutes of the previous meeting were approved as published. The Treasurer's report was read.

Old Business:

Winlink:

The Winlink Node has been completely rebuilt and reinstalled on the top of the Fredonia Hotel. It operates on 145.050 MHz and has full time connectivity to the internet. Motion made and approved to reimburse AE5P for his expenses to complete this project.

Field Day:

W5TXR has stepped down as FD co-chair, and has asked **Robert, KD5FEE** to take over that position. After some discussion, it was moved to defer our Field Day operations this year due to lack of participants. Approved.

New Business:

Neches

River

Rendezvous:

NRR is scheduled for Saturday, June 5. Please contact **Mike, WD5EFY**, if you can help.

VHF June Contest:

Rovers going out in June include **W5TV/KE5ZNJ** in the White Rover, **N5AIU/AE5BN** in the Red Rover, and **WK5F** in his new rover.

6 Meter DXpedition:

K5N plan to operate from DL88 and DL89 the weekend after Field Day, 6 meters only. Operators include **K5QE** and **N5YA**.

Meeting adjourned at 7:23 p.m.

Show and Tell:

W5TV showed his 70cm copper pipe loop antenna from a QST article of July 2006.

Program:

John, KC5MIB presented a program on GPSVisualizer, a computer program for calculating and drawing path profiles.

Silent Keys

It is with great sadness that we must report the passing of **Bert Fisher, AC5Z** and **Travis Newton, KD5GRK**.

Bert was a long time member of NARC, and had been a driving force in the club for many years. Always cheerful, always ready to lend a helping hand, **Bert** will be missed.

Travis was a member of NARC for several years when he lived in Lufkin. A few years back he moved to Tyler. **Travis** was very active in Skywarn and loved to go mobile during severe weather. He will also be missed.

Our sincere condolences to Bert's wife Lois, and to Travis's wife Susan, **KD5ISR**.

Oscillations From The Chair

Hello to each of you. Since our last meeting, we have lost one of our long time members, **AC5Z, Bert**

Fisher. Mr. Bert passed away on June 4. Although my ham license is not old, my association with the local club goes back many years. One of those persons who I fondly remember was **AC5Z**. Working with Emergency Management situations gave me the contact with Mr. Bert. Whenever the City called for Amateur Operators, Mr. Bert showed up. I can remember taking the family out to the Scenic Overlook on Hwy 7 East during field day events and Mr. Bert would be there. Mr. Bert enjoyed ham radio, enjoyed CW, and enjoyed training others in the hobby. Mr. Bert will be missed.

Field Day has come and gone. I was unable to attend any of the functions due to friends who came in from Utah for a visit. I understand that some of the conditions were not optimal at times but that happens every year.

As I write this article, Hurricane Alex is spinning

away in the Gulf heading for landfall in Mexico. I am watching all events in Hurricane Alley at this time since we will be staying at a cabin on Crystal Beach in July. I looked at the water temperatures reported from ocean buoys and find that water temperatures are running in the mid 80's which is very warm and conducive to storm strengthening. In saying all of this, may I remind each of you that it is not too early to prepare for such storms that may threaten us in future weeks or months. Check your generators and batteries to make sure they are ready. Check your portable radios to make sure they are still programmed properly and that simplex frequencies are programmed in so you can still communicate should the repeaters go down. Several stores have been running specials on bottled water lately. Should you need additional gasoline containers, now would be a good time to purchase those before there is a run on them at

stores. If you stock pile gasoline, please do not store it inside your garage or home. You may want to check your antenna system to make sure it will stay in place during severe wind storms.

Should you want to monitor State Emergency Management activities and preparedness efforts, you can review their Situation Report (SitRep) that is published daily during event situations. It can be found at: <http://www.txdps.state.tx.us/dem/sitrepindex.htm>

It is very interesting to monitor the events and see the plans in place should Texas residents be affected by an event.

See you on Wednesday night.

KD5GEN- Rusty

email: rusty.sanders@att.net

VP's CORNER

As many of you may know, I have recently retired from teaching at

McMichael Middle School. At the moment, I am living on my family farm in Mt. Pleasant, but this may change. I will be coming back to Nacogdoches for the next few meetings, but it's not clear yet what my future might hold in store. Stay tuned.

Hope to see you all at our next meeting.

73 de John N5AIU

email: n5aiu@yahoo.com

VE TESTING

Our next VE testing is scheduled for Wednesday, July 21st at 7:00 p.m. in the Parish Hall of Christ Episcopal Church. Applicants should bring a picture ID, the original and a copy of their current Amateur license, the original of any CSCE's and \$15 to cover the cost of the exam(s). Correct change is always very much appreciated. 73 de AE5P
email: ae5p@arrl.net

CLUB NETS

Remember to join us each week for the 2-meter nets sponsored by NARC. Each MONDAY is the NARC ARES/RACES net, at 8:00 p.m. on the club's 146.84 repeater (PL 141.3). Second, on THURSDAY evenings at 8:00 p.m. is the Deep East Texas Skywarn Net on the 147.32 repeater (PL 141.3). Please join us for one or both. We are always looking for folks who would like to become net control operators. If

you are interested, please contact any of the existing net controls. We will be pleased to help you in any way we can.

NEXT MEETING

The next meeting will be on Wednesday July 7th at 7:00 p.m. in the Parish Hall of Christ Episcopal Church. The church is at the corner of Starr and Mound Streets in Nacogdoches. Please bring any show and tell items you might have.

BASIC ANTENNAS

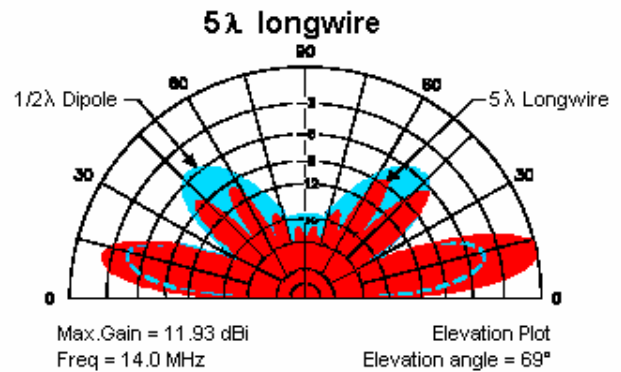
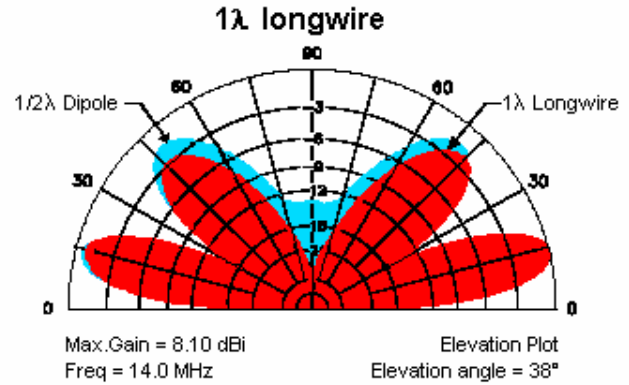
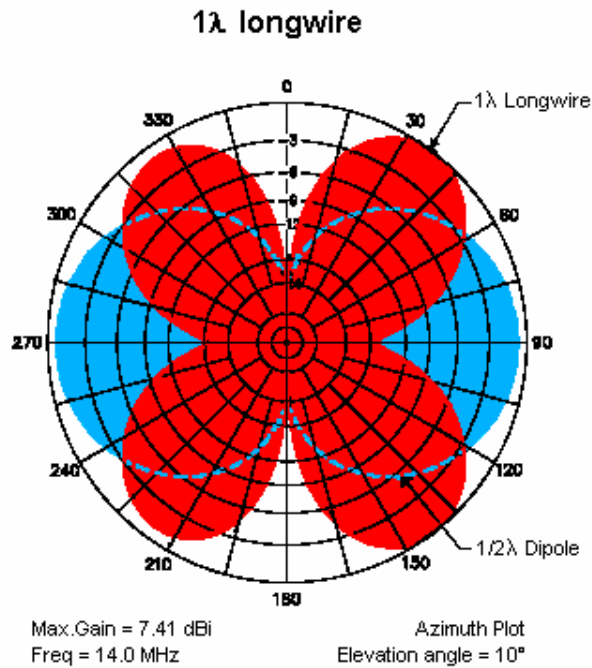
PART 20

by

Thomas Atchison W5TV

A long-wire antenna is a wire antenna that is long in terms of wavelength. That is, if we choose to operate on a particular frequency, the length of the antenna must be at least one wavelength long at that frequency if it is to be called a long-wire antenna. We usually cut a wire to be one or two wavelengths long at the lowest frequency we plan to use. Then, as we move up in frequency, we have an antenna that is longer in terms of wavelength. The antenna does not have to be a straight wire. It can be in the form of an inverted L or a vee shape. A long wire antenna is normally fed at the end or at a current loop. If you remember that a current loop becomes a node when the antenna is operated at any even multiple of the frequency for which it was designed, then you realize that if we are going to use the long-wire on all bands we need to feed it at one end. Usually we use a balanced line to feed the long wire antenna and match it to the transmitter with a tuner as we discussed earlier. If we attach a balanced line to the end of a long-wire then we attach one side to the wire and leave the other side of the balanced line unattached. Some hams use a quarter wavelength matching transformer at the feed point. This matching transformer is usually designed to work on the lowest frequency that we plan to use. As we go to higher frequencies the matching transformer acts like a resonant line.

As we extend the length of a long-wire antenna in a straight line the number of lobes in the radiation pattern increases. The following figure shows the radiation pattern as compared to a half-wave dipole. The long-wire pattern is in red and the dipole pattern is in blue. The left pattern is an azimuth pattern and the two on the right are elevation patterns. Compare the upper right at one wavelength to the lower right at five wavelengths.



In the next installment I want to talk about a particular long-wire antenna called the Beverage antenna.