

# Nacogdoches Amateur Radio Club

## 2011 CLUB OFFICERS

Pres: Rusty Sanders - KD5GEN

VP: Clarence Riddle - KC5UBP

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.



## NOVEMBER MINUTES

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

The Lufkin Hamfest was held on Saturday, October 22. Jerry K5JLW

reported that 101 attendees registered, they had 27 vendor tables inside and 9 tailgaters outside. N5YA, KE5EXX, Jimmie Lou and Kay handled the food concession, raising \$103 for NARC. VE testing was offered, and 3 people availed themselves of the opportunity. Jerry noted that ARRL had contributed approximately \$300 in door prizes and goodies. Many thanks to all who helped make the hamfest a success.

The nominating committee made its report, recommending the following slate of candidates for 2012: President: Rusty KD5GEN, Vice-President: Mike KF5KEY, and Secretary/Treasurer: Army AE5P. The

candidates were all elected by acclamation.

Shuttle Columbia Special Event Station will be held February 4<sup>th</sup>, 2012. Kay Simpson (N5YA xyl) is the new manager of the Columbia Museum in Hemphill, and has invited us to hold our SES at the museum in 2012. Kay has requested NASA to send an astronaut to participate with us, and is awaiting a response. NARC will be organizing car pools to assist members with the drive to and from Hemphill. It promises to be one of the best SES operations yet.

The NARC Christmas meeting/party will be held at our usual meeting location on Wednesday December 7<sup>th</sup>, beginning at 6:00 p.m. There will be a pot luck dinner and our famous White Elephant auction.

Meeting adjourned at 7:45.

## OSCILLATIONS FROM THE CHAIR

Hello to each of you. Another year is almost gone. I suppose everyone is looking forward to the Christmas holidays and the various New Year festivities. If you should be leaving the area to be with family and friends over the holiday season, I wish you a safe trip.

For those of you with children or grandchildren who happen to be ham operators, be sure to remember that the ARRL has a college scholarship program for which they can apply for assistance. Full details of the program and the application process can be obtained from the ARRL website.

As a former member of the fire service, I would be remiss not to insert a public safety message at this point.

Should you have a live Christmas tree, please be sure to make sure the tree

## Nacogdoches ARC

is watered properly and use caution and not put too many lights on the tree.

Use of indoor or outdoor Christmas decorations should be tempered with a large dose of common sense. If the conditions are damp outside, consider not performing maintenance on the outdoor lighting unless the power is DEFINITELY off. Some folks will have the outdoor decorations plugged into to a Ground Fault Interrupter circuit. Remember GFI's can also fail! It is much safer to just throw the breaker until you are finished with the work.

If you are using an extension cord(s), please do not coil these up to hide the excess cord. Remember, coiling these cords creates an electro magnet, which creates heat which can create fire.

Recently, work was performed on the 84 repeater which involved checking the repeater and also the replacement of the antenna which had

**3**

water inside the antenna. I appreciate AE5P and KE5EXX for their above and beyond efforts and assistance.

Nacogdoches County has a large number of amateur radio operators. Only a few are active within our club. It would be fantastic to see a lot more of them involved within our club. If you have suggestions for getting more participation, please bring this information to us. It would be interesting to see some more fox hunting situations. There are many hams with many different interests that would be interesting to see in a training presentation at our meetings.

Hope to see you all at the next meeting on Wednesday, December 7. This will be our Christmas Party meeting. We will have foods and drinks at this gathering. Please remember, the meeting time will be at **6:00 PM**.

Hope to see you at the meeting on November 2.

## **Nacogdoches ARC**

**East Texas Skywarn Emergency Weather 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**

Our next VE testing is scheduled for Wednesday, December 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](mailto: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

## **RADIO GIVEAWAY**

If you are a current member of the Nacogdoches Amateur Radio Club, and upgrade your ham license to General or Extra during

the calendar year 2011, you will receive one or more tickets for a special drawing to be held at the club's annual Christmas party / meeting on December 7th, 2011.

Members upgrading from Tech to General will receive one ticket. Members upgrading from General to Extra will receive two tickets. Members upgrading from Tech to Extra will receive three tickets.

Each winner of the drawing will receive at minimum an Amateur Radio HF transceiver complete with power supply and microphone. Depending on donations, there may be more equipment added to this.

At this time, there are at least three complete HF radios available for the drawing:

1. Drake TR-5 transceiver
2. Kenwood TS-140 transceiver
3. Kenwood TS-130 transceiver

The drawing will be administered and

conducted by the Club Secretary/Treasurer.

Winners of this equipment are asked to donate their equipment back to the club if they no longer have a need for it, so the program can be continued in future years.

If you would like to donate equipment to be used for this program, please contact **AE5P**.

## BASIC ANTENNAS

### PART 38

by

Thomas Atchison W5TV

Continuing our discussion of triangular antennas, suppose we construct two triangular antennas, one for 40 meters and the other for 80 meters. We will place these two antennas at right angles to each other to minimize interaction. The configuration is shown in Fig. 1

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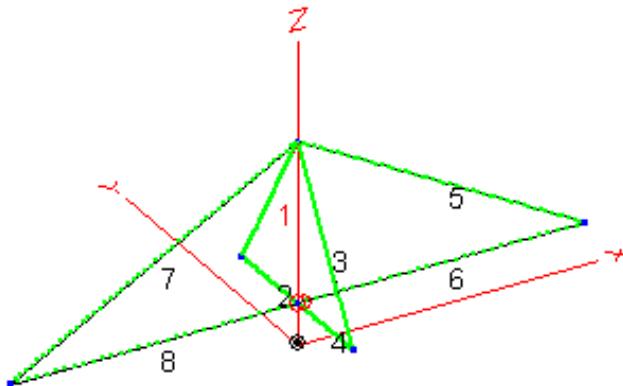


Fig. 1

The two antennas are shown in green with the 80 meters antenna along the x-axis and the 40 meter along the y-axis. The apex of both antennas is 50 feet and each base is 10 feet above the ground. The 80 meter antenna has a total length of 260.6 feet and the 40 meter antenna has a total

length of 141.9 feet. Each antenna is fed at the center of the base of the triangle. If we use 52-ohm coax the SWR sweep from 7 MHz to 7.3 MHz is shown in Fig. 2.

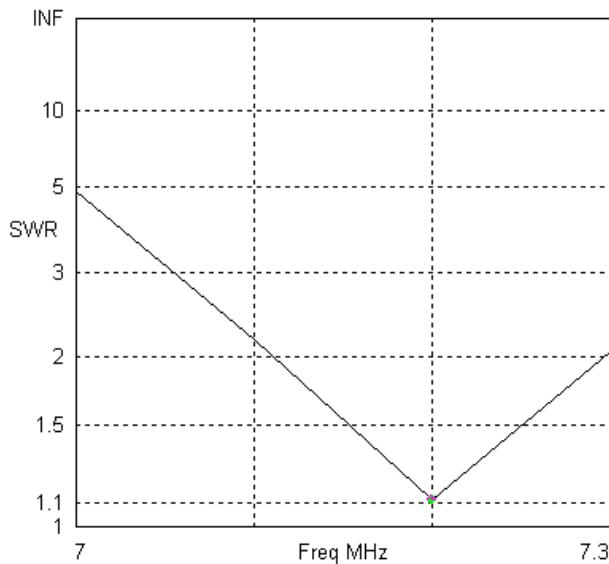


Fig. 2

The minimum SWR is 1.1 : 1 at 7.2 MHz.

The SWR sweep from 3.5 MHz to 4.0 MHz is shown in Fig. 3

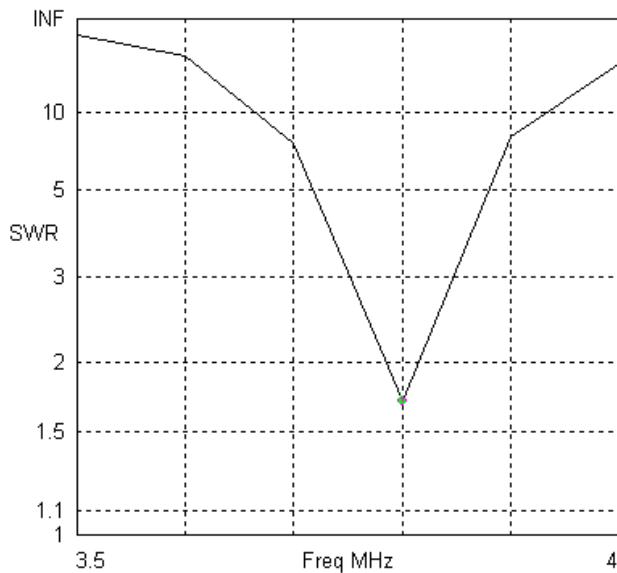


Fig. 3

The minimum SWR is about 1.7:1 at 3.8 MHz.

These two graphs show that you could use a single feedline of 52 ohm coax for both antennas with good results.

The radiation pattern for 3.8 MHz is shown in Fig. 4.

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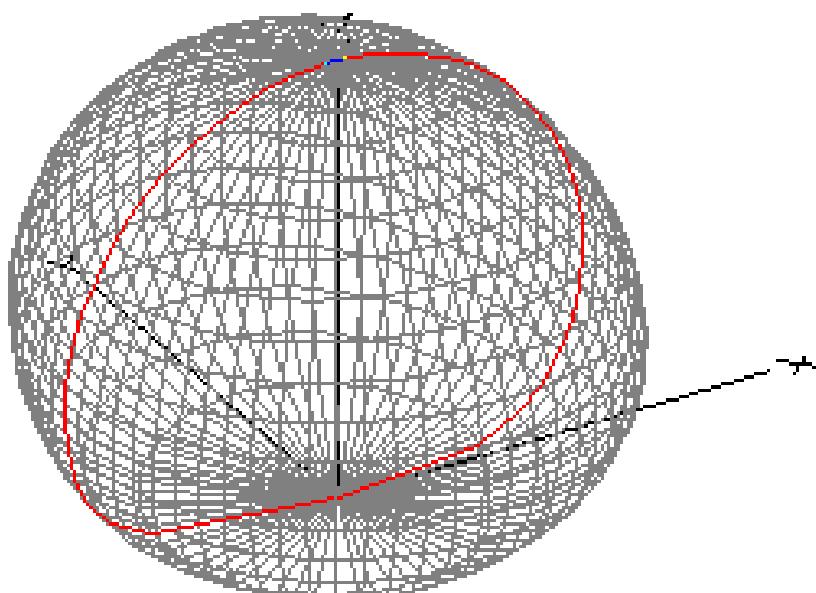


Fig. 4

The red curve represents a slice with maximum radiation near vertical.

The radiation pattern at 7.2 MHz is shown if Fig. 5.

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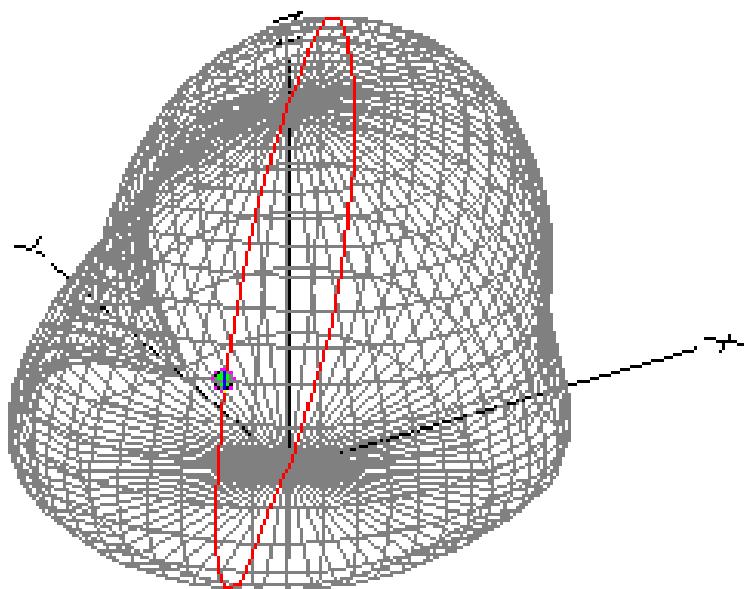


Fig. 5

Here the maximum radiation of the elevation slice (red curve) is at about 60 degrees.