

NARS NEWS

The Northwest Amateur Radio Society

Houston, Texas

September 2006

September Meeting – Antennas for Emergency Use on 2 Meters

Antennas for emergency use should be simple, easy to transport, and reliable under adverse conditions. Murphy's Law states that anything which can go wrong, will and in the worst possible direction. Therefore, the KISS principle (keep it simple, stupid) should be our guide.

This is my view of three antennas for 2 meter emergency use which do not require a ground counterpoise.

Charles Birkhead, AD5VQ

New Shirts & Jackets

Fellow Narsians we have been asked to come up with a new NARS polo shirt with the NARS logo. Well after having researched some of the members we are proud to offer two polo shirts the same style but different colors. One is light blue and the other is Tan.

The Shirts are a pocket polo short sleeve shirt made from a 65% polyester / 35% cotton medium weight knit. The Shirts have a Teflon fabric protector that resists stains, a lay down collar. These are quite reasonable so that you can get one of each color.

Tan is lighter than picture and lettering will be darker
Small to 1XL \$32 XX Large \$34 XXX Large \$35

PS if some one wants a Jacket, that can be ordered at the same time.

How to order: E mail order or mail, with first name, current call sign, size (and if you have ordered shirts or jackets in the past 3 years let me know). Make check out to NARS and mail to address below. You may order in person and pay with cash at any of the local meetings or meals.

Jerry Whiting, 1118 Marne Ln., Houston, TX. 77090
G_whiting@sbcglobal.net, Phone 832-483-5773(cell)



Important Dates

Friday, Sep 15, 7:30 PM – General Membership meeting, Spring Cypress Presbyterian Church – Eyeball QSOs, 7:00 PM.

Saturday, Oct 28, 8:30 AM – VE License Exam Session, Tomball Community Center, S. Cherry & Market streets (just South of Main).
NOTE: There will be no September session because it falls on the same weekend as TQP.

Tuesday, Sep 26, 7:30 PM – Board of Directors meeting, Ponderosa Fire Station, 17061 Rolling Creek drive.

Contests

Sep 16–17 Scandinavian CW
Sep 16–17 SC QP, WA Salmon Run, QCWA QP
Sep 17 NA SSB Sprint
Sep 23–24 TX QP, CQ WW RTTY
Sep 16–17 Scandinavian SSB
Sep 30–Oct 1 AR QP
Oct 7–8 CA QP
Oct 28–29 CQ WW SSB
Nov 25–26 CQ WW CW

Wednesday Lunch Bunch – North

Sep 13 Sweet Tomatoes
Sep 20 BJ's Restaurant & Brewery
Sep 27 Casa Imperial Mexican
Oct 4 Strack Farms
Oct 11 Pepperchino
Oct 18 Luby's Cafeteria

Wednesday Lunch Bunch – West

Sep 13 Fajita Willies 290
Sep 20 Jason's Deli
Sep 27 Goode Co BBQ
Oct 4 Skeeter's
Oct 11 Charlie's Hamburgers
Oct 18 Cafe Express

Wednesday Lunch Bunch – Medical Center

Sep 13 Pappas Barbecue
Sep 20 Fred's Italian Corner
Sep 27 Jason's Deli
Oct 4 Buffalo Grille
Oct 11 DJ's Old Timey Hamburgers
Oct 18 Marco's Mexican Bar & Grille

Monday "Tail Draggers" Lunch Bunch

11:00 am, Aviator's Grill, Hooks Airport

Notice: NARS membership dues are \$20 per year, renewable on anniversary of last year's full payment.

Deadline for articles to appear in the next issue is the last day of this month.

BREAKFAST
at Denny's
7720 Louetta
Saturdays
7:30 AM

President's Corner

September 2006

One of the important ingredients in a GREAT club is the enthusiasm in which tasks are started by volunteers. An example is filling a vacancy in the board of directors of NARS. We would like to welcome Marty Fitzgerald W5MF as a new board member. He will fill a vacated seat on the board. We believe that he will wish to continue to serve a two year term.

Those of you who missed the August meeting missed an opportunity to bring your wife and have her enjoy the program. Bill Denton did a wonderful job editing the Malta DXPedition.

One of the best ways to improve your CW skills is to work with someone. If you do not have your license YET, work with someone who also is working on passing the test. When I was working on the code I found the practice exercises were inefficient; high percentage of the time was not spent on characters I was having difficulty with. To make the most of my study time I made my own practice examples. Some examples came from a typing book; sentences with all the letters of the alphabet in them. I would use these sentences to gage my progress.

Once a month, I work the QRP CW Spartan Sprint . A sprint is a shortened contest. In this case the time period is two hours. It is sponsored by Adventure Radio Society <http://www.ARSqrp.com>. The goal of this sprint is to work as many stations as you with as light a radio as possible. I have built the ATS-3 which weighs less than 0.1 pound including case (<http://kd1jv.qrpradio.com/>). The battery pack and keyboard keyer make up the majority of the 1.6 pounds.

No sprints hold a candle to the excitement of being a mobile operator and crossing a county line during the Texas QSO party. Wow, what fun! Then again, when a friend spots you on the cluster and another pile-up begins. September is Texas QSO month.

Mark K5GQ

Public Service Events

Your Radio Skills Are Needed

Events officially sponsored by NARS include Buffalo Bayou Regatta (October) and Sunmart Texas Trails Run (December). Events supported by NARS members include Houston Marathon, MS 150 and Wings over Houston.

Plan to help with one or more of these events in 2006.

Following is a report from K5ZTY.

We've been lucky so far this year that there hasn't been any severe weather. That has given us some time to get antennas and equipment installed in various emergency response agencies in the area. The Ponderosa VFD has purchased a radio, power supply and antenna and is in the process of pulling in coax to the ham radio operating position.

The Cypress Creek Communications Center now has a 40/80 meter fan dipole up overhead that needs tuning and finishing up. I got to ride in the bucket of the Ponderosa VFD tower truck to put the pulley bracket on the tower for that one. That is definitely the way to do tower work.

Methodist Hospital Willowbrook called me Thursday and said that their coax runs had been installed so I went to look it over and suggest their next step in the installation. They need to put the Polyphasers in line and mount some antenna brackets on the cinder block walls on the roof. They will then be ready for some ham help to hook up and test radios. Andy said that he would have that ready next week. What I need now is a list of hams (8 or so) in the close proximity of Methodist Willowbrook who will volunteer to be on the communication team. We will meet with the volunteer coordinator of the hospital and go through the same application and background check process that the rest of the hospital volunteers go through to receive volunteer badges to allow us access to the hospital in case of an emergency. You don't have to be a member of ARES, RACES or any other organization to do this but you should have some experience handling traffic and keeping logs of the traffic you handle. This will be a group of communicators who specialize in this hospital and its equipment and communications needs. If you are interested in working with this project let me know.

The Northwest Hospital is also in need of ham communicators to become familiar with their equipment and needs. Terry Myers and Jerry Whiting are heading up the equipment installation at that location and are about ready to test radios and put a communications team together there.

October 21st is coming up in about five weeks and that is the date for the Buffalo Bayou Regatta. NARS provides the communications for this event. Paul Franz and Rob Nixon chair that event and will need about 10 volunteers to cover the check points along the bayou. This is a half day event and you can be assigned a station close to the start line if you need to get away earlier than that. That same weekend is the Wings Over Houston air show at Ellington Field. Christine Terrell chairs that show and will be calling for volunteers soon. That is a 3 day event and there are openings for part time help if you can't do the whole show.

There are lots of opportunities to volunteer your services.

Become Active!

Bill, K5ZTY

DX News

“For All the NARS DX News Fit to Print”

DX IS! Yes . . .

DX IS . . . what you make of it.

DXing; where do you start?

Most DXers will tell to “listen; tune the band; listen and tune the band again”.

Yes, the true art of DXing encompasses a lot of listening.

But ‘listen-smart’. Know your area’s band conditions and follow the peaks for the bands of interest. Don’t expect that band to be open at your convenience. It may take some late night or early morning tuning about the band. It just depends upon when your band is open . . . That’s open to your area. The higher bands tend to follow the Sun. As an example; in this phase of the sunspot cycle; 17 meters open to our area during the mid-morning . . . as the sun moves west. If your up listening on 17 meters just after daylight and you hear the east coast making contact with Europe; go ahead, give a call. But if all he is answering is the east coast; go drink a couple of cups of coffee. Don’t waste your time. Come back in a few hours.

Now, there are exceptions to all of this and I guess that is what makes DXing interesting. I worked one of the new-DXCC countries, Montenegro, in Europe, recently on 15 meters. It was a fairly early time of the day and not a European or North American station on the band. “Phooey; dead band, again.” Time to go to breakfast and come back later. I was tuning across and heard this Montenegro station, coming in good for that time of day and working other EU stations. Heck, give him a call. I worked him. He must have been beaming somewhat towards North America; but working only EU stations. Turns out he is running, something like, “5 over 5 over 5”. Three each five element 15 meter Yagi’s. No wonder he could hear me and I could hear him. This station is a known “big gun” contest station from, then Yugoslavia. Contest stations like those antenna setups for good reasons. One of which is that they can literally open and close a band. They have more time on that band equals more contest QSO’s and more points.

Another exception would be during the

peak of the sunspot cycle. Most times these higher bands are active world-wide around the clock. But, as we all know; not now; not during the low-low of the cycle.

Know your bands!

Of course, now, times are radically different. You still need to do a lot of listening but there is a big helper available: DX Clusters. There may still even be a 2 meter packet cluster down Houston way. (It’s too far for us up here near The Woodlands and Conroe.) The packet cluster is connected to the internet and is connected, via telnet to a DX cluster. This is how a lot of us got started with DX clusters.

There are numerous clusters available; all it takes is an internet connection. For example, The Texas DX Society (TDXS) operates a DX cluster. Telnet to 24.153.160.22. You will have to register the first time and it saves your data for future connects. After logging in type “sh/dx” and you will see an ongoing list of DX spots. Do a “sh/u” and see who else is connected to the local node.

You will see spots from all over the world being posted. Station callsign, frequency, time of the spot and the callsign of who created the spot. There may even be a comment like QSL information, name or QTH. Look at the call of who is making the spot. You will see spots for stations that are being worked that you cannot hear at all. It’s wrong time of day, etc. But this tells you that the station is active. Maybe he will be on when you have propagation?

Start tuning about that frequency when the band is open to that area. Heck, he might be there . . . calling CQ! You can snag him before the big pileup occurs.

DX clusters also afford you the opportunity to connect or talk to another operator if he is connected. You can also read propagation reports or see what clusters are connected. You can also make announcements to the cluster that can go all around the world.

Some DX clusters offer filters. You can filter out DX spots made from, e.g. Europe; thinking you can’t work them

anyway because of propagation. (“Wrong!” It will tell you who is active.) You can filter out bands of no interest to you. The list goes on and on.

Some DXers have the DX cluster working in their shack 24 hours a day. Just another tool to help you work DX smarter!

Member reports for August:

We are really slack in the DX report segment this month. Two of the club’s “Big Guns” are down due to house moves:

1. Cal, WF5E, hasn’t moved yet but is oh . . . so close. He has torn down his station and will set up very soon at the new location. He already has put up a 58 foot tower for some 2 meter DXing. Shortly he will have a new 72 foot electric crankup tower with a new SteppIR Yagi.

Cal does have a dipole-of-sorts at the old homestead; but no DX to report. He has been using; can you believe; a \$500.00 straight key. He has on-loan for the Belize DXpedition, a Japanese “GHD 502 M” straight key. I can’t believe it. My first straight key took almost a week’s worth of “paper-boy-ing” at 4:30 every morning to be able to buy. (maybe \$5.00)

Cal along with others is in Belize at the time of this writing for a straight key DXpedition and participation in a FISTS contest the weekend of September 9-10th. We will get to gear this \$500 GHD straight key.

2. Bruce, N1LN/4, a.k.a. NC4KW and Ms. Laurie have moved into their new abode near Chapel Hill, NC. Wouldn’t you know, the true-blue DXer that Bruce is; he has jury-rigged a dipole or two as his very-temporary “antenna farm”. Probably neither Bruce or Laurie can get their vehicles inside the garage for all of the many tower sections and antennas stacked in there awaiting “resurrection”. I understand that while the cement people are at the new place doing some other work, he will have them cement in the several tower bases and guy poles. Then it will be time to stack some tower.

Continued on page 4

DX News continued from page 3

August 14, 2006; on the air! August 21: Now running a kilowatt. Bruce has even made some DX contacts with his temporary antenna farm: DX QSO's: 18; Countries worked: 12; Best DX: 3 QSO's with Australia (VK) w/ 100 watts. 40 C W. . .

Look for NC4KW during the Texas QSO Party! Bruce says to . . . "listen carefully".

Bruce has also been checking in to the 3875 (+/-) group from NARS along with the mayor of Hockenstein, Walter, KK5LO on Monday evenings after the 8 PM 28488 NARS net.

Bruce asks the question about how late is 20 meters open in the evening. He has been able to work Europeans and Asiatic Russians as late as 9:15 PM, Texas time. Well, heck, of course, Bruce. For North Carolina; Europe is only one skip-hop away, probably. I thought that all you needed on the Easy

Coast was a dipole up 20 or 30 feet, Hi! Thanks Bruce!

3. John, W5PDW; NARS' "Mr DX", continues to show up the membership on how to work DX:

- a) KH8SI (Swains Isl) on 15 meters
- b) Montenegro (4O3/4O6) on various bands.
- c) "N7C", the special event station of Code Talkers from Arizona
- d) "K7T", special event for Philo Farnsworth, electronics pioneer.

John is getting primed as this column is being written to work the Tomball DXpedition to Belize. John said that Cal and Eddy kept their straight keys in a bank safe-deposit box while they were at home. Thanks Messr. Ellis!

4. Mike, K5UO ('le columnist) hasn't been too active; like the rest of the members. Where I come from in the

Rocky Mountains; you work the radio in the seven months of winter and do antenna and other work outside in the few weeks of summer.

This months DX QSO's:

- a) OM2VL 80m CW b) T77C 17m CW
- c) A25VB 17m CW d) LX/DK1WU 40 CW
- e) 4W6AAB (Timor-Leste) 20 CW
- f) Montenegro(4O3/4O6/YU6): 7 bands incl. 80m!
- g) KH8SI (Swains Isl) 6 bands incl. 75m SSB!

Notable QSL's received: (new band counters)

- a) C91TK 17m (Frosty's group) b) SO1R (Western Sahara) 15/30m CW
- c) TF4M 80m CW

Thanks folks and see you next month.

73,
Mike Bragassa, K5UO

VE Session Results

The results of the regular August VE session, held on 08/26/2006, are in.

We had eight candidates, to which; 1 - code test; 6 - Technician tests, 4 - General tests and 3 - Extra tests were given. Five candidates earned a Technician license, one earned his General class license and two earned their Extra class ticket.

Congratulations are in order for new Technicians: Sean Baker - KE5KFY - The Woodlands; Frank Putnam - KE5KFZ - Cypress; Bruce Vicknair -

KE5KGA - The Woodlands; Chris Pickens - KE5KGB - Spring; and Robert Armstrong - Sugar Land.

One candidate earned his General class license, great job: James Stringfield - KE5JTW - Spring.

Two Extra class licenses were earned by:

John Backo - AD5YE - Cypress; and Thomas Hauff - K8VZD - Magnolia.

The volunteers for this session were, Keith Dutson - NM5G, Sarah Connell

- W0HXO, Eddy Reynolds - K5WQG, Walter Holmes - K5WH, Tom Rum - W5RUM and Jim Kirk - KJ5X; my special thanks to these folks for their time and help; we simply can't do these sessions without our volunteers.

The next session will be held on 10/28/2006. There will be no September session because it falls on the same weekend as TQP.

73
Norm Covey/K5OS
NARS VE Session Manager

Ham and “Sheez” News

August Update

Thank you to all the ladies who helped to format, assemble, and sell cookbooks during July and August. We have all of the remaining books together and ready for sale. Our goal is to sell them all before Christmas. If you would like to have some to sell at church or work, please let me know and I will be happy to check them out to you. Some of us have committed to go to all of the local ham fests between now and December – cookbooks and samples of the recipes in hand – ready to sell.

Darlene Buoy and I attended the Austin Summerfest in hopes of selling lots of cookbooks. Time did not permit us to bake any samples to take with us and that is what we attribute the very low sales to. Not to worry, there are a couple of ham fests left this year and we plan on having plenty of samples and new posters to help sell cookbooks.

The August meeting of the Ham and Sheez was held at Starbucks on Spring Cypress near Champions Forrest. This was used as a planning meeting for the next few months and we have a lot of things to do and will take us into the month of November. Pull out your planners, your calendars, your highlighters, and your pens because you will certainly not want to miss any of the excitement.

Upcoming Activities

Hold on to your hats ladies. It is going to be a very busy time for the Ham and Sheez moving into the holidays.

September 9th – 6:30 pm

The fourth annual Ham and Sheez Wine Tasting party will be held at the home of – you guessed it – Tina and Eddie Sinclair. Once again, Tina and Eddie have graciously opened their home for this special event. In years past, it has been the most highly attended event in Ham and Sheez history. This is definitely a couples evening full of good food, good company, and of course, some very nice wines. Tina will send an invitation to each of you via email with all the details

of what to bring with you.

September 23–24

This is the annual Texas QSO Party sponsored by NARS. Many of the Ham’s and some of the Sheez will be hitting the road to travel to as many Texas counties as they can in the 18 hours of the contest, contacting as many Hams in Texas and around the world as they can while they are driving. Listen for N5AOK on 40, 20, and 15 meters during the contest.

September 25th

For our September meeting, we are going to have a “girls night out.” We are planning on attending a new dinner theatre near the intersection of I45 and Ritchie Road. We will sit and eat dinner while the movie is showing. Sounds like it is even better than popcorn and a soda. Details about this will be forthcoming, so watch your email for updates.

October 7th

Road Trip – This is the annual antique sale at Round Top, a little more than an hour’s drive from NW Houston. We have been hearing about this event for the past few years and have decided it is time that we see what it is like for ourselves. The trip home will probably include a stop in Brenham for a scoop of Blue Bell. We need to reward ourselves for all the walking, talking, and shopping. Naturally, the details will have to be worked out, but clear your calendars for this all day Saturday event.

October 21st

The Redd School will be having their annual carnival event and we have been invited to set up a table with our cookbooks. It is a 4–hour event, so if we could have a few ladies to volunteer for a two hour slot in the booth, we think we could put a big dent in the boxes of books we have left to sell. For those that do not know about the Redd School, the school has an extracurricular program which helps to license new Hams. Many of the NARS group have been involved in the past few years to provide equipment, training, mentoring, and time with these youngsters who are helping to keep this hobby alive.

October 27–28

Hamarama will be held at Lake Texoma Lodge (North Texas). This will be another opportunity to sell cookbooks this year. Because Lake Texoma is partially in the state of Oklahoma and partly in Texas, there will be an opportunity to sell the books to folks who have not seen or heard of us before. Yes – we have a following. I have had emails from as far away as El Paso, wanting information about the cookbooks.

November 4th

This will be another road trip to a very special place. We are going to Brookwood in the town of Brookshire. This is a special place where disabled or mentally challenged individuals are allowed to live, work, and play independently. Many of them are amazingly talented as we will see when we shop through the thousands of crafts they have for sale. This weekend will include many one–of–a–kind Christmas crafts in addition to the pottery, leather, jewelry, and many other items these remarkable people have made. You won’t want to miss this.

As you can see, we have lots to do in the coming months. There is something for everyone and we would like to see everyone be with us for something. Remember to check your email for last minute updates with all the details for these events.

Recipe of the Month

Hot Sausage Cheese Dip

2 # Hot Owens Sausage
2 # Velveeta Cheese
1 pkg Good Seasons Garlic Salad Dressing Mix (dry)
1 large can evaporated milk

Melt cheese and milk in top of double boiler. Brown and crumble sausage; drain and add to cheese mixture. Stir in dry dressing mix; heat all the way through. Keep hot and serve with chips or crackers.

*Enjoy,
Anita – N5AOK*

QUA* Keith Dutson NM5G?

As I dialed the number for this month's interview, I heard a loud thunderclap . . . so my first question was "Are your antennas unplugged?" NM5G, Keith Dutson replied that his antennas are always unplugged unless he is actually on the radio.

Keith was born at St. Joseph hospital in Houston. His parents lived in Baytown. After high school he took a semester of 23 hours at Lee Jr. College. He decided this was a bad mistake, dropped out and joined the Air Force with a friend. After attending the Denver Technical School, he was stationed at George AFB near Los Angeles. He enjoyed leave in San Francisco, Las Vegas and other fun places nearby.

After four years he came back to Houston. His father had taken a job with Exxon and moved to Memorial drive in Houston. He enrolled in Houston Baptist University with an original major of Chemistry. He now also holds degrees in Physics and Math.

While assisting as a lab tech he met a young lady named Beth. They now have two daughters, Dallis and Trace (pronounced like the city Dallas, and Tracy like Tra-cy), who have given them five grandchildren.

Dallis has a degree in Fashion Merchandising and was working at a small boutique. Her manager signed her up to compete in the Miss Go Texan

Pageant. The winner would be the year's Houston Rodeo Queen. Keith didn't pay much attention until she called and said she had won!

Trace graduated Magna Cum Laude and is fluent in French, so she now adds an accent mark at the end of her name.

Beth has had horses since they were first married. She now has what could be called a "Horse resort". The horses have their own pool!

Since finishing college Keith has been in computer programming his entire career. He started at Bank of the Southwest then Texas Commerce Bank.

At Bank of the Southwest a friend started a band with a drummer from Safe Deposits, a bass guitarist from IT and Keith on guitar from Programming. He also sang in the Texas Commerce Bank choir.

In 1992 Keith and a partner started a business with a software package for home inventory. Over five years they sold 350,000 copies. But, as many of us know, owning your own company is a 24/7 proposition and they decided to get back into the "real world".

This turned out to be a new joint merger between Mitsubishi and Caterpillar. They had each tried making forklifts, but together they were successful. He has

been with them for ten years next April and will retire in 1 1/2 years.

Keith was first licensed in 1977 as WD5DXL. He has upgraded to Extra with the call NM5G (No Money 5 Grandchildren).

His goal is to have a multi-two contest station. He now has two Yaesu FT-DX 9000D rigs and two Alpha amplifiers. He prefers the M2 mono-band antennas.

He currently has one 150 foot tower with a goal of three more towers.

NM5G's favorite contact was a physician in Oman. They shared a ragchew about their interests in computers for 30 minutes.

He has another hobby, auto racing. He enjoys watching formula 1 racing and has six trophies from drag racing, but his real love is auto-cross. It runs on a closed track at speeds to 50 mph. He has his eye on a Corvette Z06 for competing.

Keith sums up his life thus far with one word, "Fortunate". He has a wonderful wife, great children and grandchildren, fun hobbies with great friends. What more could any of us ask for?

*Schalee Lodge, KD5WLL
Ham & Sheez Reporter*

* QUA: "Q" signal meaning "Have you news of . . . ?"

NARS Satellite News Report

One of the more interesting LEO (Low Earth Orbit) birds (common reference to a satellite) is actually a package that is attached to the ISS (international space station) called PCSAT2. The package was attached to the outside of the ISS during the last space shuttle mission when the astronauts did a space walk to inspect the tiles on the shuttle. It has packet and other mode capabilities and is currently being tested by several control operators around the world. K5WH and W5MF are two control operators that

have been trying to test the PSK31 ten meter uplink. This bird was built by the US Naval Academy Satellite Lab with Bob Bruninga, WB4APR as the principal investor. When the ISS is over the area you can hear voice, packet, and hopefully PSK31 on the downlink at 437.975 plus or minus Doppler Shift. More information about PCSAT2 can be seen at <http://eng.usna.navy.mil/~bruninga/pcsat2.html> and general information about satellites and software

packages to track them are listed at <http://www.amsat.org>. During the next shuttle mission which has now been delayed into September 2006, PCSAT2 will be removed, but until that happens, PCSAT2 will be up and running.

Help keep this an active report. If you have local satellite news of interest, please send updates to fitz6@swbell.net.

Marty Fitzgerald W5MF

Welcome, Congratulations and Condolences

Congratulations to Cal White WF5W, Eddy Reynolds K5WQG and Bob Mennell WB5IUU on being published in QST and CQ magazines for the Straight Keys in Belize DXpedition.

NARS Resource List

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TBA

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VE SESSION (ARRL)

Manager:
Norm Covey K5OS
281-252-8285, k5os@arrl.net

REPEATERS

2M: 146.660 / 146.060 (KA5AKG)
Tone: 141.3
70 cm: 444.375 / 449.375 (KA5AKG)
Tone: 103.5

MEETINGS

Monthly General Membership

Third Friday each month at 7:30 PM
Spring Cypress Presbyterian Church, 6000
Spring Cypress Road

Saturday Breakfast

Denny's, 7720 Louetta, 7:30 AM

Wednesday Lunch 11:30 AM

Various locations (Info on 146.660 and
listed on front page in Important Dates
column)

NARS NEWS is published monthly by
Northwest Amateur Radio Society

Send all articles and materials for the
Newsletter to:

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Northwest Amateur Radio Society is a
Special Service Club affiliated with the
American Radio Relay League.

ARRL Club No. 2120