

NARS NEWS

The Northwest Amateur Radio Society

Houston, Texas

August 2002

Meeting – Harris County: Faulty and Sinking!

At the NARS meeting on August 19th we'll take a look at geologic faults in Harris County and the effect they can have on man made structures. We'll review briefly other aspects of the geology including a review of the biggest oil fields. And we'll take a look at surface subsidence shown on maps from the Harris Galveston Coastal Subsidence District. A lot of subsidence has occurred since the early 1900's and more is predicted for this century.

Jim Kirk KJ5X

Following Jim, I will be presenting an overview and update of the Texas QSO Party for 2002 that is scheduled annually beginning the last Saturday in September. This year's TQP is on September 28 and 29 (Saturday and Sunday).

George Edwards K5VUU

R.F. Interference

Maybe you're having trouble with a neighbor or your wife regarding RF interference. If your RF is coming in on your telephone, buy a K-Com filter and install it on your phone – they do a good job. Another filter you can buy is a low-pass RF filter installed between your rig and the antenna. It helps keep your signals out of TV sets and other entertainment equipment. Split beads and ferrite toroids may help also. The following may be useful:

Ferrite Beads and Toroids

Ferrite is a ceramic containing granulated iron compounds. It comes in toroids, beads and bars that can be used as low pass filters at RF. When current flows in a wire passing through a ferrite bead, magnetic flux circulates inside the bead. In ferrites formulated for EMI control, most of the magnetic flux is dissipated in the material as heat. The bead forms an absorptive filter with energy absorption proportional to frequency and bead length. The optimum bead size and composition is determined by the application.

Ferrite cones are uniquely suited for attenuating the flow of common-mode currents. Wrapping a cable through a lossy toroid (that is, one with a high-permeability mix) forms an RF-choke for common-mode currents, without attenuating differential-mode signals. With unbalanced cables (coax), common-mode current in the shield sets up a field that dissipates the energy as described for beads. With balanced cable (speaker cable, twine leads and such), the differential-mode currents produce magnetic fields opposite polarity, which cancel so that there is no net field negligible signal loss, common-mode currents are dissipated as described for beads.

Speaker leads may be wrapped through a ferrite core to reduce RF energy entering an audio amplifier via the speaker leads. Similarly, winding a single layer of the cord on a ferrite rod can attenuate common-mode RF current flowing through an A/C-line cord. When both the antenna and power leads carry common-mode current, the attenuation afforded by a toroid can be multiplied by winding both leads (in opposite directions) on the same core.

Ferrite cores are effective filters at higher frequencies than wire-wound inductors because of their low associated capacitance. Ferrite cores are also easy to use. By simply slipping one or more cores onto an antenna lead, speaker cable, pick up lead, power cable or multi-use cable, RF current on the wire will be attenuated. A single core slipped over a wire is equivalent to a single turn RF choke. Increasing the series inductance is simply a matter of adding more turns, more or longer beads, in direct proportion to the inductance required.

Harry AC5XD

Important Dates

Friday, August 16, 7:00 PM – General Membership meeting, Spring Cypress Presbyterian Church – Eyeball QSOs, 7:00 PM.

Saturday, August 24, 8:30 AM – VE License Exam Session, Tomball Community Center, S. Cherry & Market streets (just South of Main).

Tuesday, August 27, 7:30 PM – Board of Directors meeting, Terra Nova Clubhouse, 5200 Woodville.

Contests

Aug 10–11 Worked All Europe CW, Maryland–DC QSO Party

Aug 17–18 NAQP SSB, New Jersey QSO Party

Aug 24–25 Ohio QSO Party

Sep 7–8 All Asian SSB

Sep 8 North American CW Sprint

Sep 14–15 Worked All Europe SSB

Sep 15 North American SSB Sprint

Swapfest

Sep 14 KARS, Katy, Texas, 7:00AM

Contact Charles KK5MS, 713–202–9898, knobcls@attglobal.net

Wednesday Lunch Bunch

Aug 14: Red Lobster

Aug 21: Strack Farms

Aug 29: Pepperchino

Sep 4: Lasagna House II

Sep 11: Jason's Deli

Wednesday Lunch Bunch – West

Aug 14: Chilis

Aug 21: Fuddruckers

Aug 27: Puma Mexican

Sep 4: Jasons Deli

Sep 11: Luthers BBQ

Notice

NARS membership dues: \$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 Victors

4710 W FM 1960

Saturdays

7:30 AM

President's Corner

August 2002

Wow!! Summer is half over. Time does fly when your having fun. Especially when that fun is NARS related. And what fun was had at our July meeting. Aron Kosko and Justin Hays are two very talented individuals and put on a tremendous demonstration of "Tesla Coils" that they designed and constructed. Guys, we were truly impressed and amazed at your "comfort" and expertise with those voltages. THANKS, and come back any time.

By the way you can see some of Aron and Justin's other projects and interests at this web address www.hvguy.com. I have looked it over and I'm not sure at this point whether or not I would know how to deal with these guys if they were neighbors of mine, although the area surrounding their lab is most assuredly a "mosquito free" zone.

We have had some truly enlightening and entertaining programs this year. Thanks go out to Bill Denton, our Programs Chairman and to all of our presenters. Next month will find KJ5X, Jim "Captain" Kirk presenting his look at Greater Houston Area Geology. Should prove very interesting. We are looking forward to it Jim.

See you all at the meeting.

73

George, KD5AYF

VE Session Results

At the NARS VE Test Session held July 27, 2002 there were 14 candidates. The results were six new Technician hams, one new General, and two upgrades to General. Elements administered totaled 17 with 12 passed.

The VE's were Norm Covey K5OS, Mark Tyler K5GQ, Keith Dutson WD5DXL, Steve Niles N5EN, Walter Holmes K5WH, and the newest VE on the scene Howard Leverenz AC5VF.

Thanks to all for their help.

The next NARS VE Test session will be held on August 24, 2002. See ya there.

Walter Hock KK5LO
NARS VE Session Manager

Public Service Events *Your Radio Skills Are Needed*

No events scheduled this month.

Coming soon, SIRE Ride-A-Thon, Cat Spring, Texas, October 19, 2002. Please mark your calendar.

HandiHams Update

If you have registered as a HandiHams volunteer or subscribed to weekly HandiHams e-letter, in past weeks you saw an opportunity available for an events editor. In this week's e-letter, the opportunity is no longer listed. There is a good reason for that – I have volunteered to fill that position. The work involved in this position is summarizing upcoming events that may be of interest to the HandiHams members. The scope is not only national; it may prove to be international. The gathering of information will be from emails I receive, detailing upcoming events, and from searching the web. Please don't be surprised if you happen to see a note on the NARS reflector from me asking for assistance!! In advance – thank you for your support!

The Ham and "Sheez" group will be asking for your suggestions for locations and times to have amateur radio demonstrations for physically challenged individuals. We will be asking for feedback at the upcoming NARS meeting. In our conversations with the folks at HandiHams, the strong belief is the best way to introduce people to amateur radio is to show them amateur radio. Demonstrations can be one of the most effective ways to introduce our hobby. Your input will be greatly appreciated.

Yes – I've said before what I am going to say again – If you haven't signed up as a volunteer for HandiHams and are interested in helping with their work, please take a few minutes to register on their website: <http://www.handiham.org>. As a volunteer you will not only get the satisfaction of helping a great organization, you will also receive their quarterly HandiHam World newsletter.

Best regards,
Laurie Meier – N1YXU
936-271-1096
n1yxu@arrl.org

Texas Opry



Our July outing took place on Saturday, July 20. After dinner five couples ventured north to Magnolia for the show at the Texas Opry Jamboree. The Opry spotlights local talent. Each Saturday a different show provides music, comedy, and clogging entertainment to its audience. As you will see from the picture, we had a great time. It truly was a lot of fun and, again, is highly recommended by the group. If you would like more information about the show, the website is <http://www.texasopry.com>.

Ham and “Sheez” News

July Update:

Two new members to the Ham and “Sheez” group attended our July meeting. Welcome to Carol Fitzgerald and Pat White! We had a very productive evening, as you’ll see later in this update, planning meetings and activities for the next few months. As we were chatting and planning, we each decorated a paper mache box. It was fun to watch the paint, buttons, ribbon, doilies, and paper transformed into pretty boxes for potpourri or trinkets.

Our July outing took place on Saturday, July 20. Six couples met at the Stillwater Grilling Company in Tomball for dinner, which was absolutely delicious. After dinner, five couples ventured north to Magnolia for the show at the Texas Opry Jamboree. As you will see from the picture, we had a great time. It truly was a lot of fun and is highly recommended by the group.

Upcoming Meetings and Activities:

Ladies – get your calendars and start making plans to join in the meetings and activities that are planned for the next few months! You will see there are quite a lot of varied themes and a lot of fun events planned.

Meetings:

· August: Monday, 8/29 – We will be putting together HandiHams information books and learning a fun sponge faux painting technique. A separate note will be forwarded detailing supplies you should bring.

· September: Monday, 9/30 – One of our newest members, Carol Fitzgerald, had graciously agreed to share her artistic talents and teach us a craft in macramé. The September newsletter and separate email will

include the specific items that we will need to bring to the meeting.

· October: Monday, 10/28 – We will be making potpourri sachets for local nursing homes and hospitals. More detailed information will follow in next month’s newsletter.

· November: Monday, 11/25 – We will have an ornament exchange party.

Outings:

· August: Some of the ladies attended the Alley Theatre production of Agatha Christie’s story, “And Then There Were None”. We’ll give you all an update at the August meeting!

· September: On Saturday, September 14, we will have a wine tasting. Yes, the guys are invited! More details will be coming in next month’s newsletter.

· October: The First Monday Trade Days in Canton are calling. There is a great article in the current edition of Southern Living describing First Monday. We will be heading to Canton on Friday, October 4, with fairly empty cars. We will be heading back to the Houston area on Sunday, October 6 with very full cars! The guys are more than welcome to participate in the fun. If you’re interested in going and staying Friday and/or Saturday night, please let me know by Thursday, August 15. We will investigate the availability of local hotels and try to get a group rate. It should be fun!

· November: The very highly recommended IMAX Space Station will be featured at the Museum of Science. The film includes footage of amateur radio contacts with crew on the space station. We haven’t picked a Saturday in November just yet. But, we will be heading to the museum for the IMAX production and stopping for

lunch/dinner afterwards. Yes, guys, you’re invited to this one, too!

As you can see, we have some very interesting activities planned. Be sure to make plans to join us.

Monthly Ham Recipe:

Many NARSians are following the Zone diet. The following recipe is especially for them. Although, everyone will enjoy it!

Pork Tenderloin with Apple Compote – 1 Dinner Entree

4 ounces pork tenderloin
1 Granny Smith apple,
cored and chopped
1/2 cup unsweetened applesauce
4 cups mushrooms, sliced
1 1/3 t olive oil, divided
2 T cider vinegar
2 T lemon and lime flavored water
1/4 t lemon herb seasoning

Heat 2/3 t of oil in a medium non-stick sauté pan. Saute pork loin until cooked through and lightly browned. Add apple, applesauce, vinegar, celery salt, cinnamon, water, and lemon herb seasoning. Simmer for 3 to 5 minutes. In second non-stick sauté pan, heat remaining oil. Add mushrooms and cook for 3 to 5 minutes. Spoon mushrooms onto a serving plate. Top with pork mixture and serve.

Enjoy!

*Best regards,
Laurie Meier – NIYXU
936-271-1096
nlyxu@arrl.org*

ARRL Receives Homeland Security Grant

On July 19, ARRL Bulletin 43 announced that the ARRL will receive a \$181,900 homeland security grant from the US government. The purpose of the grant is to provide free ARRL Amateur Radio Emergency Communications Course training to 5,200 volunteers nationwide. The program will begin in 2003. The League was included in several dozen nonprofit organizations, who will receive approximately \$10.3 million in federal money to drive homeland defense volunteer programs. Homeland Security Director, Tom Ridge, supported the grant by saying, “ARRL is the national association for Amateur Radio and is the national leader in emergency communications by volunteers who operate their own equipment on their time at no cost to any government, organization, or corporation.”

If you are interested to learn about the ARRL Amateur Radio Emergency Communications Course training, go the Certification/

Continuing Education section under the Educational link on the ARRL website – <http://www.arrl.org>. Updates regarding the grant and available training will be communicated.

A local connection to amateur radio emergency communications activity is also available to all. Many NARSians and other local amateur operators have become very involved in the North West Harris County ARES group. Through weekly nets and scheduled drills, we have become a well-trained organization, ready to assist local organizations in times of emergency. We continuously strive to encourage additional amateurs to join ARES and become trained in emergency communications to ensure that our area is sufficiently staffed with operators in case of an emergency. The ARES net meets each Sunday night at 8:00 local time. We rotate

among local repeaters and two simplex frequencies as follows:

- First Sunday of the month – 146.72 MHz (-) (123.0 Hz)
- Second Sunday of the month – 146.76 MHz (-) (103.5 Hz)
- Third Sunday of the month – 147.30 MHz (+) (151.4 Hz)
- Fourth Sunday of the month – 146.44 MHz simplex
- Fifth Sunday of the month – 147.44 MHz simplex

I look forward to hearing you check into an upcoming North West Harris County ARES net!

*Best regards,
Laurie Meier – NIYXU
936-271-1096
nlyxu@arrl.org*

DX News

“For All the NARS DX News Fit to Print”

Persistence, persistence dear friends. With the summer months on top of us, we have to pull together and get through the heat and the up and down band conditions. Grit your teeth and tough it out! I refer, of course, to the poor band conditions of the last few weeks.

Even with all of the blackouts and white noise, there has been a respectable amount of DX available and worked as witnessed by the faithful. Just keep in mind that September is the first gateway to some good winter DX. Use this time well to put up new antennas, or touch-up existing ones so that you are “ready” for that next DX contact. If your hands begin to shake and you experience a little dry-mouth, work that already confirmed country. Working confirmed DX is as good as a pinch of salt over the shoulder, black-eyed peas, or a Saturday night bath! Breathe deep and all will be OK. Some members have reported a little anxiety recently while doing antenna work. This is all part of the bigger picture my friend. Hang tough.

There were 176 solar samples (readings) taken during July as this article was being drafted. The A index was in double digits for 115 samples for a total of 16 days. This is what really yanked the bands around and gave us such fits!

The numbers never lie. Here we go:

* The high SFI occurred July 26th with a reading of 242 up from the 182 in June.

* The low SFI occurred on July 10th with a reading of 128 down from the 131 of June.

* The low A index occurred on July 15th with a reading of 4 up from 3 recorded in June.

* The high A index occurred on July 21st and 22nd with a reading of 23 up from June’s 17.

* The low K index occurred on July 15th with a reading of 1.

* The high K index occurred on July 21st with a reading of 5.

Local Events:

NARS DX’ers did pretty good during July as usual. Here’s their report.

John W5PDW says he was a bit more active during July. John found Frosty K5LBU on 20 meters operating from 3DA0CF Swaziland. The following DX found it’s way into John’s logbook: P40, KG4, 8R1, 9Q1, 5K0, ZL3, SV1, I8, IK5, CA0, JY, V73, and KH6. A nice package also arrived at John’s place with about 20 cards. No new countries! John says he worked a number of special event stations like K4S at Shiloh. And, he got into the Museum Ships Weekend and had a blast. He worked 13 ships, including the Arizona in Pearl Harbor. He heard the Battleship Texas over and over but couldn’t get them. Too close for 20 meters!

Rick KZ5E took his wrist rocket over to John’s and lassoed some tree limbs. “Looks like I’m going to have to cut some high limbs, or get a more powerful rotor. A 150’ tower would solve the tree limb problems, says John.”

George K5VUU had a good month by the looks of things. 9Q1A Peoples Democratic Republic of Congo on 12 meter SSB for a new country and CY9DH St. Pauls Island on 15 meter SSB for a new band country. Meanwhile at the mailbox, George reeled in three new country confirmations and one new mode. New countries confirmed are: S79MX

Seychelle Islands, OJ0U Market Reef, and 9Q1A Peoples Democratic Republic of Congo. And, confirmed for a new mode is 5N6NDP Nigeria.

Cal WF5W reports no cards, no news, and worst of all no new radio. So, . . . keep Cal on your DX prayer list!

Bruce N1LN reports a great month in the QSL department, and a pretty good month in the QSO department. A busy work schedule and much antenna work (getting ready for the fall contest season) took its toll on his logbook. However, “I would like to get 5 new ones EVERY month!” Bruce did log 5K0Z – San Andres / Providencia Is. – 80/40/30/20/15 CW.

New QSL confirmations for new countries include: YA5T – Afghanistan – 12 CW; XR0X – San Felix – 160/40/30/15 CW, 80/40/20/17/12 SSB; SV2ASP/A – Mt Athos – 20 SSB; TN3W – Congo – 17/12 SSB; TN3B – Congo – 20/15/10 SSB – 17 CW; and UK9AA – Uzbekistan – 20/17 SSB – 17 CW.

New QSL confirmations for new band countries include: E29AL – Thailand – 40 CW / 10 SSB; AP2ZA – Pakistan – 20 SSB; 9U5D – Burundi – 40 CW; and T77C – San Marino – 12/10 CW – 17 SSB.

Jim KJ5X says July was not a big month in his shack, but not a total loss either. Jim worked CY9, CM6, VK9NL and 7X on 15 meters and EA3, P43, OK1, HK0Z on 20 meters. Jim is still looking for cards from VP6/D, PY0T and YA5T. “I’m ready if they are.” Jim also worked N2DJ, Don in VA, via the RS12 Satellite. “Hadn’t done anything like that in a long time. It’s fun and not too tough to do.”

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DX News – Continued from page 4

Jim K5JDB had 80 DX contacts during July. Most were duplicates, but those that were new were: TF3A, Iceland; PJ7/WA6WXD, St. Maartin; EA8AST, Canary Island; CY9OH, St. Paul Is.; 9L1BTB, Sierra Leone; TU2IG, Ivory Coast; OD5YJ, Lebanon (operator 12 years old); 5W0DL, Western Samoa; CU9X, Azores; A71MA, Qatar; VP5/W4UBC, Turks–Caicos Is.; CT9M, Madeira Is.; and 5B4/RW9UP, Malta. New cards received were: D44TD Cape Verde Is.; HQ4C Conejo Is./Honduras (Sorry Matt); C6AIE, Abaco Is./Bahamas; A35RK & A35VK, Tonga; and VP2E, Anguilla. Jim logged 18 IOTA contacts during the weekend contest. “Still having fun!”

Norm K5OS was busy in July even with a little vacation sprinkled in there. Norm worked the following on 15 meters: 6M17IG South Korea; HL5NLQ South Korea; ER4DX Moldova; SV9CVY Crete; OS5NH Lebanon; CY9DH St. Paul Is.; JY4NE Jordan; YB9COD Indonesia; EL2AR Liberia; AH8A American Samoa. And, on 20 meters Norm logged CU3H Azores. What a month!

Paul W5PF reports poor band conditions at this QTH in July with no Qs on 10, some on 15, and the bulk of his DX'ing was done on 20 meters. “Typical summer doldrums,” quoting Paul. As he notes, it should get better as we approach the equinox. Paul only worked about 60 Q's in the IOTA contest; however, he did pick up a few new ones.

Two new countries found their way into Paul's log in July, P5/4L4FN North Korea on 15 meter RTTY. “Thank goodness the ARRL announced that they are accepting RTTY contacts.” His other new country was TY Benin. He worked the TY operation on 15 cw and 20 phone. This bumps Paul up to number 319! He worked a couple of new ones on 40 meters including 5K0Z. He also worked Jacky 3B8CF on 20 cw. Paul says, “we'll see about a QSL.”

Paul says there wasn't much in his mailbox this past month either. Although, a couple of FO0 cards (for bands countries) and a couple of IOTA

cards arrived. And I quote Paul, “Could it be that 'PDW has made a deal with my mail delivery person?’” Paul says he sent out several QSL's direct. He's hoping for a better showing in August. “I currently have an 84% success rate when going direct or via a QSL manager vs. 58% via WF5E. The burro is only 19%, but that should improve since it takes a while for the system to work.”

Congratulations everyone for your DX efforts. Great job! Keep up the good work.

From this Station:

July looked a lot better from the logbook than it actually sounded. I never expected these results: 127 DX QSOs (115 after multi-band and W, K, A, and N QSOs were removed) up from the 78 of June. QSOs in the log represent 69 countries and 24 CQ zones.

4 QSOs on 80, 6 on 40, 65 on 20, 24 on 17, 22 on 15, and 4 on 10 meters. The biggest surprise were the QSOs on 80 and 40 meters. This time of year you just don't expect much from these bands using inverted vees. Yes, several of these Qs were from the Caribbean.

Countries worked: 4X1FQ, 5B4/RA9JX, 5B4KH, 5C2MI, 5K0Z, 5W0DL, 7X0DX, 8N2JHQ, 9A5K, 9H3OA, 9K2ZZ, 9Q0AR, 9Q1A, C6DX, CO2GG, CU3EQ, CU3H, CU7H, CU9X, CX4CR, CY9DH, DA0HQ, DF0RU, DH2BRR, DJ5FS, DL7FER, DZ70S, DZ7S, EA1BD, DA5KB/7, EA8BWW, EG9IA, EI/G0WKW, EI0HQ, EM0HQ, ER7HQ, ES1AJ, ES9A, FG/DK1MM, HB9BYZ, HG0HQ, HG6N, HG7X, HI8/AC4LN, I5REA, IK3UNA, IK4ZIF, IK8TMI, IK8WEJ, IU2R, J75KG, JA1CG, JA7NVF, JM1LPN, KH6DV, KH6GMP, KH6ND, KP2/AA1BU, LX0HQ, LY0HQ, LZ9W, M0BZH, OA4O, OD5YJ, OL2HQ, OT2A, P40B, P40C, P41HQ, PA6HQ, PJ2/G0HFX, PJ2/G3XSV, PJ7/N1IZP, PY2NY, R3HQ, RA3QK, RN6BY, RS0F, S50HQ, S50Q, S53O, S57UN, SN0HQ, SP9LJD, SV9CVY, T90HQ, TF/VE7RKK, TG9AMD, TR8CA, TY4DX, UV7D, UZ5U, VE5RI, VE9W, VK2SQ,

VO1AA, VP5/W4UBC, XE1/W5FG, XE1KK, XL5DX, XM3ZIK, YL/K9ZO, YL4HQ, YR0HQ, YT0HQ, YU1AAV, YU1INO, YV5NSF, YV5NWG, YW1T, ZF2SW, ZL3KR, ZP5MAL, ZS6/K5LBU, and ZX7XX.

My VP6DI Ducie Island card arrived this month confirming a new country on multiple bands. Yikes!

Each month when you think you've done pretty good, comes the challenge of the next month and suddenly you are back down to earth again. Let's give August a shot and see what happens! See you on the bands.

Scheduled DX Operations

Here are some of the scheduled DX operations for August. Good hunting!

- * Aug 01–08 Honduras HR
- * Aug 01–14 Netherlands Antilles PJ2
- * Aug 02–08 Myanmar XY
- * Aug 04–10 Nepal 9N7AS
- * Aug 05–11 Brunei V8
- * Aug 05–15 Monaco 3A
- * Aug 05–17 Guadeloupe FG
- * Aug 06–23 Azerbaijan 4J
- * Aug 09–11 West Malaysia 9M2
- * Aug 09–22 Myanmar XY
- * Aug 10–14 French Polynesia FO
- * Aug 11–18 Malta 9H3KW
- * Aug 11–19 St Pierre Miquelon FP
- * Aug 16–19 Myanmar XY
- * Aug 16–19 West Malaysia 9M2
- * Aug 17–18 Guantanamo Bay KG4
- * Aug 17–18 Falkland Islands VP8LGT
- * Aug 20–30 San Andres Providencia HK0
- * Aug 25–31 Togo 5V7XO
- * Aug 31–Sep 07 Market Reef OJ0LA

Thanks to John W5PDW, George K5VUU, Cal WF5W, Bruce N1LN, Jim KJ5X, Jim K5JDB, Norm K5OS, and Paul W5PF for continuing to support this month's column. Your support for this column is appreciated.

If you have DX info for the column, please e-mail wa5mlt@arrrl.net.

*73 es gd DX to all ...
de — H. O. WA5MLT*

Welcome, Congratulations and Condolences

Condolences to Wayne Blackburn W5GBT whose wife, Patricia Ann Blackburn, passed away July 26.
Welcome new members Hanif Gopalani, Nate McClain, Bob McCreary N3EME, Max Vickers and Wade Wallace KD5SUY.

NARS Resource List

General Help:

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*Send address, phone, email and other
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2M Information: Wed. 8:00 PM,
146.66MHz
Coordinator open

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NARS REFLECTOR

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REPEATERS

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

MEETINGS

Monthly General Membership

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

Saturday Breakfast

Victor's Restaurant 7:30 AM

Wednesday Lunch 11:30 AM

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

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Send all articles and materials for the
Newsletter to:

Editor: Keith Dutson WD5DXL
281-351-7683, wd5dxl@arrl.net

Northwest Amateur Radio Society is a
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American Radio Relay League.

ARRL Club No. 2120