



ARES COMMUNICATOR

Information for Scott County Amateurs



April, 2015 **Accurate, Reliable Emergency Communications for our Community** Volume 15, Number 4

ARES Operators: Do NOT Miss Field Day

By: Rick Palm, K1CE - ARRL ARES E-letter

ARRL Field Day is the flagship emergency/disaster/public event training exercise. Miss it at great expense to your annual training regimen. It is held annually on the fourth weekend of June - this year, June 27-28.

ARRL Field Day is the most popular (and in my opinion, the most fun) on-the-air event held annually in the US and Canada. More than 35,000 radio amateurs gather with their clubs, groups or simply with friends to operate from remote locations, ideally outdoors in a true field.

The experience and training gained from transporting your radios and antennas to the field, setting them up, using them as you would in an emergency/disaster/public event, troubleshooting problems, deriving efficiencies and effectiveness, and learning lessons and fixes to be applied for the next time, are more valuable than any other training exercise, class or manual.

Activate for June's Field Day and make yourself a better public service field operator for yourself, your ARES member-team mates, and the public safety agencies and public event organizers and managers we work with during the rest of the year. See the June issue of QST for more information on this year's Field Day, including the rules and scoring. And lastly, have a ball!

Scott ARES
2015 ARRL FIELD DAY
HAM RADIO
June 27 - 28, 2015
Canterbury City Park
13308 Inglewood Ave
Savage, MN
Come Join the Fun!

Severe Weather Awareness Week
April 13-17, 2015

ARES Activities

Weekly Net Monday 7 PM 146.535 mhz (s)
Breakfast Saturday, April 11th
Digital Monday, April 13th



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The ARES COMMUNICATOR is published for the benefit of Amateur Radio Operators in Scott County and other interested individuals.
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 Reader submissions encouraged!

ARES Nets		
MN ARES Phone Net	6:00PM Sunday	Freq: 3.860 mhz
ARRL MN Phone Net	12:00p, 5:30p CST Daily	Freq: 3.860 mhz
ARRL MN CW Net	6:30p, 9:50p CST Daily	Freq: 3.568 mhz
NETS WITH OUR NEIGHBORS		
North Dakota:	Daily 3.937 mhz	6:30pm
South Dakota:	Daily 3.860 mhz	6:00pm
Wisconsin:	Daily 3.985 mhz	5:30pm
Iowa:	Daily 3.970 mhz	12:30/5:30pm

Metro Skywarn Spotter Appreciation Picnic

Metro Skywarn is proud to announce the 4th Annual Spotter Appreciation Picnic to be held on Saturday May 16th from 12pm - 3pm. We have planned Sunday May 17th as the rain date alternative.

The picnic will be held at the NWS Chanhassen facilities located at 1733 Lake Drive West, Chanhassen, MN 55317.

This is just one way that the Board Members of Metro Skywarn can say "Thank-You" to each of you and to your Family, for all the time, effort and support you each give back to the community with your dedication with regards to severe weather spotting.

As in the past, The SKYWARN Board will provide hot dogs and beverages, plates, napkins, utensils, etc. We would ask any attendees to bring something to share (not Mandatory, but would be appreciated) such as snacks, salads, desserts, etc.

To allow the Board to plan for the event they are requesting people to pre-register for the picnic. If you could RSVP with the number of people in your group and maybe an indication of the dish you could bring to share, that would be great!

This to be a Family event, so bring the kids! We will have games, facility tours and is always a good time had by folks of all ages.

Questions can be emailed to: howard.lund@rcemhs.com The address for your RSVP is: <http://www.eventbrite.com/e/metro-skywarn-spotter-appreciation-picnic-tickets-15600493496?aff=efbevent>

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Emergency Communications Guide Released

A new version (January, 2015) of the IARU's emergency telecommunications guide was developed to provide the IARU member-societies around the world with materials suitable for training their members to participate in emergency or disaster events.

It is also designed to provide guidance to the individual Amateur Radio operator who has little or no experience in handling emergency communications but desires to enhance their ability to participate in such events or to simply have a better understanding of the process. IARU member-societies are encouraged to distribute this guide among their membership and, if necessary, to provide a translation into a language used within their own country.

This guide can also be used in conjunction with other training materials by leaders within the emergency communication community to train radio operators in the basic theory and practice of handling emergency telecommunications traffic. Several chapters, 7 thru 9, deal with directed net and NECOS operation and are excellent for periodical review.

This guide closely follows the ARRL Emergency Communication training courses offered in-line in the past. Download the guide and you will have an excellent resource.

You can download the PDF version from this page: <http://www.iaru.org/emergency-telecommunications-guide.html>



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Scott County ARES Contacts

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N0BHC@arrl.net



"In theory there is no difference between theory and practice. But, in practice, there is."

Voice of Experience
(Don't ask how I know this!)

Amateur Radio License Exam

Now that you have done the work to study for your upgrade, here is where to find a convenient exam session near you. There is a VE exam search engine at: http://www.arrl.org/exam_sessions/search

Walk-ins allowed at most sessions however it is always best to check the details at the specific session you are planning to attend.

Below is a list of scheduled sessions close to Scott County. Good Luck!

April 21 2015 Monday, 6:00 PM

Chanhassen MN

Contact: Dale A. Blomgren

(952) 402-2155 kd0b@arrl.net

Carver County Library

7711 Kerber Blvd

Pre-reg requested.

April 25 2015 Saturday 9:00 AM

Bloomington MN

Contact: Daniel J. Royer

(952) 888-9756 dan-arrl@droyer.org

City Hall-Police Department

1800 W Old Shakopee Rd

Walk-ins allowed

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Dog Fence RFI?

This Ham reports surprising results from an RFI problem.

“About 5 years ago, my neighbor, across the street, put in an Invisible Fence™ system for her cats. Immediately, a loud ‘buzzing’ (6 - 9 s) was now heard on 15 through 80 meters. I called my neighbor and asked if it would be possible for him to momentarily turn the system off. He did, and my noise was gone. I called the company that installed it and the owner, said he would be right out. He was here 30 minutes later, and replaced the controller. VOILA’, the noise was gone. He came over and apologized, while eyeballing my station. Mentioned he had always wanted to become a ham but never had the time.

I gave him a Tech class license study guide I had and about a month later, he came over and said he had taken his tech test and passed. Last I heard, he was hot on upgrading to General, as the CB atmosphere here in my area did not appeal to him. I invited him in and we went to 10 meters, which was open, and he had his first several HF conversation to South America. Afterwards we talked radios and gave him suggestions on the radios I was familiar with (Yaesu, Drake, and Kenwood) and gave him phone numbers of ICOM aficionados. I talk with all the time on 75.

All because of a faulty Invisible Fence controller!”

Take a Dip in the General Pool

Time to test your knowledge of the information covered by the General Class license exam. Each month we’ll take a look at a selection from the question pool.

Strap on your thinking cap and see what you can recall. Here is this month’s sample:

1. Why are HF scatter signals in the skip zone usually weak?
 - A. Only a small part of the signal energy is scattered into the skip zone
 - B. Signals are scattered from the magnetosphere which is not a good reflector
 - C. Propagation is through ground waves which absorb most of the signal energy
 - D. Propagations is through ducts in F region which absorb most of the energy
2. What type of radio wave propagation allows a signal to be detected at a distance too far for ground wave propagation but too near for normal sky-wave propagation?
 - A. Faraday rotation
 - B. Scatter
 - C. Sporadic-E skip
 - D. Short-path skip
3. What reading on the plate current meter of a vacuum tube RF power amplifier indicates correct adjustment of the plate tuning control?
 - A. A pronounced peak
 - B. A pronounced dip
 - C. No change will be observed
 - D. A slow, rhythmic oscillation

(Check next month’s issue of the ARES Communicator for the answer.)

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March General Pool Answers

1. What is the power limit for beacon stations?
 - C. 100 watts PEP output
2. What is the maximum bandwidth permitted by FCC rules for Amateur Radio stations when transmitting on USB frequencies in the 60 meter band?
 - A. 2.8 kHz
3. What is the maximum transmitting power an amateur station may use on 1825 kHz?
 - D. 1500 watts PEP output

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Amateur Radio Parity Act

“The Amateur Radio Parity Act of 2015” - H.R.1301 - has been introduced in the US House of Representatives. The measure would direct the FCC to extend its rules relating to reasonable accommodation of Amateur Service communications to private land use restrictions. US Rep Adam Kinzinger (R-IL) introduced the bill March 4 with 12 original co-sponsors from both sides of the aisle - seven Republicans and five Democrats. Kinzinger also sponsored “The Amateur Radio Parity Act of 2014, which died at the end of the 113th Congress. H.R. 1301 is an essentially identical piece of legislation.

If Congress approves the legislation, and it is signed by the president, H.R. 1301 would require the FCC to amend its Part 97 Amateur Service rules to apply the three-part test of the PRB-1 federal pre-emption policy to include homeowners’ association regulations and deed restrictions, often referred to as “covenants, conditions, and restrictions” (CC&Rs). At present, PRB-1 only applies to state and local zoning laws and ordinances. The FCC has been reluctant to extend the same legal protections to include such private land-use agreements without direction from Congress.

H.R. 1301 has been referred to the House Energy and Commerce Committee. Rep Greg Walden, W7EQI (R-OR), chairs that panel’s Communications and Technology Subcommittee, which will consider the measure. The League had worked with Walden on the 2014 bill during the 113th Congress.

Among H.R. 1301 initial co-sponsors is Rep Joe Courtney (D-CT), who attended the ARRL National Centennial Convention last summer to speak with League officials and those attending the event about the earlier bill.

ARRL President Kay Craigie, N3KN, encouraged ARRL members to urge their US House members to sign on to the bill as a co-sponsor. The ARRL has an H.R. 1301 resources page on its website at, <http://www.arrl.org/hr-1301> . If the House member is already a co-sponsor, call the member’s local office or send an e-mail via the member’s official website to express their thanks. She called on League members to encourage other hams to do the same, and to be sure to refer to the bill by its number, H.R. 1301.

Greg Widin, K0GW, offers his help with your legislative contact. If you need further information or help please feel free to contact Greg by e-mail at K0GW@arrl.org.

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Test Your NIMS Knowledge

This month we will begin our review of ICS-800: National Response Framework. The purpose of the National Response Framework is to ensure that all response partners across the Nation understand domestic incident response roles, responsibilities, and relationships in order to respond more effectively to any type of incident. The Framework focuses on response and short-term recovery instead of all of the phases of incident management.

• Check your recall of the course material with this question.

1. Exercises should:

- Include multidisciplinary, multijurisdictional incidents.
- Include participation of private-sector and nongovernmental organizations.
- Cover aspects of preparedness plans, including activating mutual aid and assistance agreements.
- _____.

- A. Contain a mechanism for incorporating corrective actions.
- B. Have consequences for inadequate performance.
- C. Be repeated until performance is at an acceptable level.
- D. Be based on the most catastrophic scenario that could affect the community.

Check next month's ARES Communicator for the solution

March NIMS Knowledge Solution

If an incident grows beyond the capability of a local jurisdiction, then:

- B. The State activates its emergency plan, provides needed resources, and requests assistance from other States using existing mutual aid agreements.

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NBEMS Current Versions

The current version of the Fldigi manual is available at NBEMS Info page at www.scottares.org. Look under the 'Help Sheets' heading.

Now is a good time to check to your digital software to make sure you are running the newest versions. You can find the most recent versions posted at both: www.w1hkj.com/download.html and <http://www.scottares.org/NBEMS.htm>

Here are the most recent releases as of April 2, 2015.

Software	Version
Fldigi	3.22.07
Flwrap	1.3.4
Flmsg	2.0.9
Flamp	2.2.01

The Monday evening training net is a great place to have your digi questions answered and problems solved! Join the Scott ARES group on 146.535 MHz simplex at 7:00pm on Monday evenings.

Annual AFD Crossband Test

May 9th – 10th

The Army, Air Force, Navy, Marine Corps, and Coast Guard are co-sponsoring the annual military/amateur radio communications tests in celebration of the 65th Anniversary of Armed Forces Day (AFD) and the 90th Anniversary of MARS.

Although the actual Armed Forces Day is celebrated on Saturday, May 16, 2015, the AFD Military/Amateur Crossband Communications Test will be conducted 09-10 May 2015 to prevent conflict with the Dayton Hamvention (15-17 May 2015), which is the same weekend as the actual Armed Forces Day.

The annual celebration is a unique opportunity to test two way communications between Amateurs and military communicators authorized in 47 CFR 97.111, and features traditional military to amateur crossband SSB voice, Morse Code, practice using legacy interoperability wave forms, as well as an opportunity for Amateurs to utilize more modern military communications modes such as MIL-STD Serial PSK and Automatic Link Establishment (ALE).

These tests give Amateur Radio operators and Short Wave Listeners (SWL) an opportunity and a challenge to demonstrate their individual technical skills, and to receive recognition from the appropriate military radio station for their proven expertise. QSL cards will be provided to those stations making contact with the military stations.

Military-To-Amateur Cross Band Contacts

Military-to-Amateur cross band operations will take place on the dates/times in ZULU (UTC), and frequencies listed below for each station.

Voice contacts will include operations in single side band voice (SSB).

Some stations may not operate the entire period, depending on propagation and manning.

Participating military stations will transmit on selected Military MARS frequencies and listen for amateur radio stations in the Bands indicated below. The military station operator will announce the specific amateur band frequency being monitored.

Duration of each voice contact should be limited to 1-2 minutes. The following stations will be transmitting on MARS frequencies listed below which are provided as "Window/Dial Frequency" in kHz. Some stations will use CW to provide the opportunity to check in by Morse Code.

Army Stations:

STATION: AAZ (09 MAY 2015: 1500Z - 2400Z)

FREQ.	MODE	BAND
4036.0 KHZ	USB	80M
6910.0 KHZ	USB	40M
14512.5 KHZ	USB	20M
18211.0 KHZ	USB	17M

LOCATION: FORT HUACHUCA, AZ

STATION: ADB (09 MAY 2200Z ? 10 MAY 0100Z)

FREQ.	MODE	BAND
14487.0 KHZ	USB	20M
20994.0 KHZ	USB	15M

STATION: WAR (9 MAY 2015: 1200Z - 2400Z)

FREQ.	MODE	BAND
4000.0 KHZ	USB/CW	80M
7882.5 KHZ	USB/CW	40M
14663.5 KHZ	USB/CW	20M
24670.0 KHZ	USB/CW	12M

LOCATION: PENTAGON, WASHINGTON, DC

STATION: WUG-2 (9 MAY 1300Z-10 MAY 0200Z)

FREQ.	MODE	BAND
4030.0 KHZ	USB	80M
7421.0 KHZ	USB	40M
6823.0 KHZ	USB/CW	40M
14876.0 KHZ	USB	20M
14663.5 KHZ	USB/CW	20M
20973.5 KHZ	USB/CW	15M

LOCATION: US ARMY CORPS OF ENGINEERS MEMPHIS DISTRICT
MEMPHIS, TENNESSEE

Air Force Stations:

STATION: AIR

(09 MAY 2015: 1200Z - 2400Z)

FREQ.	MODE	BAND
4517.0 KHZ	USB	80M
7305.0 KHZ	USB	40M
15807.0 KHZ	USB	20M
20740.0 KHZ	USB	15M

LOCATION: JOINT BASE ANDREWS NAVAL AIR FACILITY WASHINGTON

STATION: AGA2SY

(09 MAY 2015: 1200Z TO 2400Z)

FREQ.	MODE	BAND
4575.0 KHZ	USB	80M
7540.0 KHZ	USB	40M
13993.0 KHZ	USB	20M

LOCATION: HANCOCK FIELD
AIR NATIONAL GUARD BASE

STATION: AGA4AR

(09 MAY 2015: 1500Z TO 2000Z)

FREQ.	MODE	BAND
3299.0 KHZ	USB	80M
7457.0 KHZ	USB	40M
15632.0 KHZ	USB	20M

LOCATION: ARNOLD AIR FORCE BASE

AFD Crossband Stations *cont'd from page 5*

STATION: AGA5SC

(09 MAY 2015: 1600Z TO 2300Z)

FREQ.	MODE	BAND
3308.0 KHZ	USB	80M
4872.0 KHZ	USB	80M
7545.0 KHZ	USB	40M

LOCATION: SCOTT AIR FORCE BASE

STATION: AGA9TR

(09 MAY 2015: 1200Z TO 2400Z)

FREQ.	MODE	BAND
3228.0 KHZ	USB	80M
7915.0 KHZ	USB	40M
14411.0 KHZ	USB	20M

LOCATION: TRAVIS AIR FORCE BASE

Navy/Marine Corps Stations:

STATION: NMC1

(09 MAY 1400Z - 10 MAY 0030Z)

USCG COAST GUARD ISLAND, ALAMEDA, CA

FREQ.	MODE	BAND
7542.0 KHZ	USB	40M
15740.5 KHZ	USB	20M
22924.5 KHZ	USB	15M

STATION: NMN

(09 MAY 1400Z - 10 MAY 0030Z)

US COAST GUARD CAMSLANT, PORTSOMUTH VA

FREQ.	MODE	BAND
7528.6 KHZ	USB	40M
14459.5 KHZ	USB	20M
19221.5 KHZ	USB	17M

STATION: NRV

(09 MAY 0700Z - 10 MAY 0400Z)

USCG SECTOR GUAM

FREQ.	MODE	BAND
14459.6 KHZ	USB	20M
20881.1 KHZ	USB	15M
23072.6 KHZ	USB	15M/12M

STATION: NOJ

(09 MAY 1600Z - 10 MAY 0030Z)

US COAST GUARD COMMSTA KODIAK, KODIAK AK

FREQ.	MODE	BAND
14427.1 KHZ	USB	20M

STATION: NBL

(09 MAY 1200Z - 10 MAY 0400Z)

NAVMARCORMARS RADIO STATION, GROTON, CT

FREQ.	MODE	BAND
4041.5 KHZ	LSB	80M
7371.5 KHZ	LSB	40M
14391.5 KHZ	USB	20M
20623.5 KHZ	USB	15M

STATION: NNN0ASF

(09 MAY 1200Z - 10 MAY 0400Z)

NAVMARCORMARS RADIO STATION, NNN0ASF

FREQ.	MODE	BAND
4014.0 KHZ	LSB	80M
7394.5 KHZ	LSB/CW	40M
1200-2359Z, 0200-0400Z		
7394.5 KHZ	PSK31	40M
0000-0200Z		
13974.0 KHZ	USB/CW	20M
1200-1800Z, 2000-0400Z		
13974.0 KHZ	PSK31	20M
1800-2000Z		
20997.0 KHZ	USB	15M

STATION: NNN0CQQ

(09 MAY 1500Z - 10 MAY 0400Z)

EX-USS MIDWAY MUSEUM SHIP MARS STATION

FREQ.	MODE	BAND
4003.0 KHZ	LSB	80M
7351.5 KHZ	LSB	40M
14463.5 KHZ	USB	20M
20936.0 KHZ	USB	15M

STATION: NPD

(09 MAY 1200Z - 10 MAY 0400Z)

NSA MILLINGTON TN

FREQ.	MODE	BAND
4456.5 KHZ	LSB	80M
7476.5 KHZ	LSB	40M
14470.0 KHZ	USB	20M
20578.5 KHZ	USB	15M

STATION: NNN0NUW

NAS WHIDBEY ISLAND, WA

FREQ.	MODE	BAND
4044.0 KHZ	LSB	80M
7381.5 KHZ	LSB	40M
13528.5 KHZ	USB	20M
20952.5 KHZ	USB	15M

STATION: NWKJ

(09 MAY 1200Z - 10 MAY 0400Z)

FREQ.	MODE	BAND
4010.0 KHZ	LSB	80M
7348.0 KHZ	LSB	40M
14467.0 KHZ	USB	20M
21758.5 KHZ	USB	15M

STATION: NWVC

(09 MAY 1200Z-10 MAY 0400Z)

FREQ.	MODE	BAND
3393.0 KHZ	LSB/CW	80M
7438.0 KHZ	LSB/CW	40M
13826.0 KHZ	USB/CW	20M
20678.5 KHZ	USB/CW	15M

Secretary Of Defense Message Test

The Secretary of Defense message will be transmitted via Military Standard radio teletype modes described in MIL-STD 188-110A/B and listed below. Reception of Serial PSK will provide a technical challenge to Amateur stations to receive the broadcasts using a high symbol rate Serial PSK waveform not utilized in Amateur radio, but found in all modern military equipment.

Additionally, broadcasts will be sent using Wide Shift FSK (RTTY), as this mode represents a baseline in interoperability common in all radio services. Specific settings are shown below.

MIL-STD 188-110 A/B Serial PSK. - Software to demodulate the military Serial PSK waveform (Military Standard Data Modem Terminal) and detailed instructions can be downloaded at: www.n2ckh.com/MARS_ALE_FORUM/MSDMT.html.

Utilizing this mode with soundcard equipment can be challenging and we recommend Amateur stations carefully review the instructions carefully. Receivers should be set for a 2.7 kHz passband between 300 and 3000 Hz. Audio level should be set to the minimum level that decodes. Reception of the preamble at the beginning of the transmission is required to demodulate text.

To practice receiving signals in this mode, tune to dial frequencies 17,443 USB at 1700Z and 2000Z or 13,506.5 USB at 2300Z on Monday, Wednesday, Friday or Sunday. FSK in accordance with MIL-STD 188-110A/B

Military FSK is Baudot at 850 Hz, 75 baud, low mark, and 2000 Hz center. Most RTTY programs can be set to decode this mode. To achieve low mark while receiving in USB, the reverse shift must be selected.

Although not a capability normally found in Military stations, to accommodate amateurs, some stations will transmit the Secretary of Defense message using common ham radio modes such as RTTY, PACTOR, AMTOR, PSK-31, MFSK and MT63. Amateur sound card modes will use default settings.

The Secretary of Defense message can be received from the stations listed below.

Frequencies listed below which are provided as "Window/Dial Frequency" in kHz. All times in Zulu (UTC).

U.S. Army Broadcast Stations

STATION: AAZ

(HF GATEWAY, FT HUACHUCA, AZ)

FREQUENCY EMISSION

13506.0 KHZ USB

MODE BROADCAST DATE/TIME

MIL STD 188-110 FSK 09 MAY/1500Z

MIL STD 188-110 SERIAL PSK 09 MAY/1510Z

MIL STD 188-110 FSK 09 MAY/1900Z

MIL STD 188-110 SERIAL PSK 09 MAY/1910Z

MIL STD 188-110 FSK 09 MAY/2300Z

MIL STD 188-110 SERIAL PSK 09 MAY/2310Z

FREQUENCY EMISSION

17443.0 KHZ USB

MODE BROADCAST DATE/TIME

MIL STD 188-110 FSK 09 MAY/1520Z

MIL STD 188-110 SERIAL PSK 09 MAY/1530Z

MIL STD 188-110 FSK 09 MAY/1920Z

MIL STD 188-110 SERIAL PSK 09 MAY/1930Z

MIL STD 188-110 FSK 09 MAY/2320Z

MIL STD 188-110 SERIAL PSK 09 MAY/2330Z

STATION: WAR

(PENTAGON ARC MARS STATION, WASH, DC)

FREQUENCY EMISSION

13506.0 KHZ USB

MODE BROADCAST DATE/TIME

MIL STD 188-110 FSK 09 MAY/1420Z

MIL STD 188-110 SERIAL PSK 09 MAY/1430Z

MIL STD 188-110 FSK 09 MAY/1820Z

MIL STD 188-110 SERIAL PSK 09 MAY/1830Z

MIL STD 188-110 FSK 09 MAY/2220Z

MIL STD 188-110 SERIAL PSK 09 MAY/2230Z

FREQUENCY EMISSION

17443.0 KHZ USB

MODE BROADCAST DATE/TIME

MIL STD 188-110 FSK 09 MAY/1440Z

MIL STD 188-110 SERIAL PSK 09 MAY/1450Z

MIL STD 188-110 FSK 09 MAY/1840Z

MIL STD 188-110 SERIAL PSK 09 MAY/1850Z

MIL STD 188-110 FSK 09 MAY/2240Z

MIL STD 188-110 SERIAL PSK 09 MAY/2250Z

STATION: AAC

(BARROW ARMY TRNG CTR, LEXINGTON, KY)

FREQUENCY EMISSION

13506.0 KHZ USB

MODE BROADCAST DATE/TIME

MIL STD 188-110 FSK 09 MAY/1440Z

MIL STD 188-110 SERIAL PSK 09 MAY/1450Z

MIL STD 188-110 FSK 09 MAY/1840Z

MIL STD 188-110 SERIAL PSK 09 MAY/1850Z

MIL STD 188-110 FSK 09 MAY/2240Z

MIL STD 188-110 SERIAL PSK 09 MAY/2250Z

FREQUENCY EMISSION

17443.0 KHZ USB

MODE BROADCAST DATE/TIME

MIL STD 188-110 FSK 09 MAY/1500Z

MIL STD 188-110 SERIAL PSK 09 MAY/1510Z

MIL STD 188-110 FSK 09 MAY/1900Z

MIL STD 188-110 SERIAL PSK 09 MAY/1910Z

MIL STD 188-110 FSK 09 MAY/2300Z

MIL STD 188-110 SERIAL PSK 09 MAY/2310Z

AFD Crossband Stations *cont'd from page 7*

STATION: ADB

(OKINAWA ARMY HF GATEWAY)
FREQUENCY EMISSION
14487.0 KHZ USB
MODE BROADCAST DATE/TIME
MIL STD 188-110 SERIAL PSK 09 MAY/2200Z

FREQUENCY EMISSION
20994.0 KHZ USB
MODE BROADCAST DATE/TIME
MIL STD 188-110 SERIAL PSK 09 MAY/2210Z

Navy/Marine Corps Broadcast Stations:

STATION: NBL (GROTON CT)

FREQUENCY MODE BROADCAST DATE/TIME
7370.0 KHZ RTTY 09 MAY/2340Z
AMTOR FEC 10 MAY/0010Z
MT63 10 MAY/0040Z
14393.0 KHZ RTTY 09 MAY/2340Z
AMTOR FEC 10 MAY/0010Z
MT63 10 MAY/0040Z

STATION: NNN0ASF (ARLINGTON, TX)

FREQUENCY MODE BROADCAST DATE/TIME
7393.0 KHZ RTTY 09 MAY/2340Z
AMTOR FEC 10 MAY/0010Z
MT63 10 MAY/0040Z
13975.5 KHZ RTTY 09 MAY/2340Z
AMTOR FEC 10 MAY/0010Z
MT63 10 MAY/0040Z

STATION: NNN0CQQ (SAN DIEGO CA)

(EX-USS MIDWAY MUSEUM SHIP)
FREQUENCY MODE BROADCAST DATE/TIME
7350.0 KHZ RTTY 10 MAY/0240Z
AMTOR FEC 10 MAY/0310Z
MT63 10 MAY/0340Z
14465.0 KHZ RTTY 10 MAY/0240Z
AMTOR FEC 10 MAY/0310Z
MT63 10 MAY/0340Z

STATION: NUW (WHIDBEY ISLAND WA)

FREQUENCY MODE BROADCAST DATE/TIME
7380.0 KHZ RTTY 10 MAY/0240Z
MT63 10 MAY/0340Z
13530.0 KHZ RTTY 10 MAY/0240Z
MT63 10 MAY/0340Z

STATION: NWKJ (EX-USS YORKTOWN, SC)

FREQUENCY MODE BROADCAST DATE/TIME
7346.5 KHZ RTTY 10 MAY/0240Z
AMTOR FEC 10 MAY/0310Z
MT63 10 MAY/0340Z
14468.5 KHZ RTTY 10 MAY/0240Z
AMTOR FEC 10 MAY/0310Z
MT63 10 MAY/0340Z

STATION: NWVC (USS LST 325)

FREQUENCY MODE BROADCAST DATE/TIME
3391.5 KHZ CW-25WPM 10 MAY/0300Z
7436.5 KHZ CW-25WPM 10 MAY/0300Z
AIR FORCE BROADCAST STATIONS

U.S. Air Force Broadcast Stations

STATION: AGA2SY (NEW YORK)

FREQUENCY EMISSION MODE BROADCAST DATE/TIME
13506.0 KHZ USB MIL STD 188-110 FSK 09 MAY/1400Z
MIL STD 188-110 SERIAL PSK 09 MAY/1410Z
MIL STD 188-110 FSK 09 MAY/1800Z
MIL STD 188-110 SERIAL PSK 09 MAY/1810Z
MIL STD 188-110 FSK 09 MAY/2200Z
MIL STD 188-110 SERIAL PSK 09 MAY/2210Z
17443.0 KHZ USB MIL STD 188-110 FSK 09 MAY/1420Z
MIL STD 188-110 SERIAL PSK 09 MAY/1430Z
MIL STD 188-110 FSK 09 MAY/1820Z
MIL STD 188-110 SERIAL PSK 09 MAY/1830Z
MIL STD 188-110 FSK 09 MAY/2220Z
MIL STD 188-110 SERIAL PSK 09 MAY/2230Z

FREQUENCY MODE BROADCAST DATE/TIME
7540.0 KHZ RTTY 09 MAY/1930Z
MT63 09 MAY/2030Z
MFSK 09 MAY/2100Z
13993.0 KHZ RTTY 09 MAY/2130Z
MT63 09 MAY/2230Z
MFSK 09 MAY/2300Z

STATION: AGA5SC (ILLINOIS)

FREQUENCY MODE BROADCAST DATE/TIME
7545.0 KHZ RTTY 09 MAY/1930Z
MT63 09 MAY/2030Z
MFSK 09 MAY/2100Z
14392.5 KHZ RTTY 09 MAY/2130Z
MT63 09 MAY/2230Z
MFSK 09 MAY/2300Z

STATION: AGA9TR (CALIFORNIA)

FREQUENCY MODE BROADCAST DATE/TIME
7915.0 KHZ RTTY 09 MAY/1930Z
MT63 09 MAY/2030Z
MFSK 09 MAY/2100Z
14411.0 KHZ RTTY 09 MAY/2130Z
MT63 09 MAY/2230Z
MFSK 09 MAY/2300Z

STATION: AGA4AR (TENNESSEE)

FREQUENCY MODE BROADCAST DATE/TIME
7457.0 KHZ RTTY 09 MAY/1930Z
MT63 09 MAY/2030Z
MFSK 09 MAY/2100Z
15632.0 KHZ RTTY 09 MAY/2130Z
MT63 09 MAY/2230Z
MFSK 09 MAY/2300Z

Secretary of Defense Test Entries.

Transcripts of the received text should be submitted “as received”. No attempt should be made to correct possible transmission errors.

Provide time, frequency and call sign of the military station copied, including name, call sign, and address (including zip code) of individual submitting the entry. Ensure this information is placed on the paper containing the test message.

Each year a large number of acceptable entries are received with insufficient information, or necessary information was not attached to the transcriptions and was separated, thereby precluding issuance of a certificate. Entries must be sent to the appropriate military address as follows:

AAZ, WAR OR AAC send entries to:
ARMED FORCES DAY CELEBRATION
COMMANDER NETCOM
ATTN: NETC-ITSMD
BLDG 90549 JIM AVENUE
FORT HUACHUCA, AZ 85613-7070

NBL, NNN0ASF, NNN0CQQ, NUW, NWKJ
OR NWVC send entries to:
ARMED FORCES DAY CELEBRATION
CHIEF, NAVY-MARINE CORPS MARS
CHEATHAM ANNEX BLDG 117
108 SANDA AVE
WILLIAMSBURG, VA 23185-5830

AGA2SY, AGA5SC, AGA9TR OR AFA4AR
send entries to:
ARMED FORCES DAY CELEBRATION
38 CYRS/CHIEF, AF MARS
203W LOSEY ST, RM 1200
SCOTT AFB, IL 62225

BREAK - OVER



*“I’m not saying go kill all the stupid people.
I’m just saying let’s remove all the warning
labels and let the problem work itself out.”*

The Old Cynic

RFI Advice

From the internet RFI Group: A utility interference expert comments on the post of an audio file of an interfering signal asking for a ‘best guess’ on the cause.

Want to know what is causing your noise? Go out and find it.

This same bit of advice has been given here dozens of times. Forgive me if that comment seems harsh or unfriendly. There could be a few million possible causes of the noise being heard. If it can be heard, it can be found. When it is found, then the source will be known.

I simply don’t see the point in guessing what it MIGHT be. You aren’t going to be able to see it or hear it without the right search equipment.

Perhaps the more useful topic would be, “What is the best way to find this source?” The answer is fairly simple: Equip yourself with a receiver that can hear it and give you some indication of signal strength. Use an antenna that will give you directional indications that will lead you to the source. When you get there, refine your equipment setup to be able to pinpoint it.

While making your way toward the source, listen ever higher in frequency. If you can hear the source at 50 MHz or higher, directional indications are easier to get. That’s it as succinctly as I know how to say it. Let me see, that makes 487 times I’ve said this. Sources are often intermittent and easily affected by weather. Keep a log and keep search equipment handy.

So I will not normally comment on “what it might be.” I don’t want to encourage anyone to search with their eyes. Nor do I want to prevent someone from searching with a completely open mind and full trust in their equipment. Instead, I will be most interested in the story told about how it was found and identified. This email reflector is filled with such stories as well as equipment suggestions. Search the archives or buy one of the good books that teach how it’s done.

I hope the person asking what the source might be understands that time spent asking that question is better invested in searching for the source.

Good luck.

P. S. The ARRL RFI BOOK, 3rd Edition and AC POWER INTERFERENCE HANDBOOK by Marv Loftness are good investments and worthy “training manuals” for the budding Interference Investigator.

You can find the manual here: <http://www.arrl.org/shop/AC-Power-Interference-Handbook>

BREAK - OVER



2015 Hamfests

Compiled by Doug, N0NAS

Make your calendars! Here is a list of some of the scheduled Hamfests in the area. Time to refine your shopping list and get ready to comb the flea market tables.

April 11, 2015

Hamboree 2015 & ARRL Convention, Boone, Iowa
www.3900club.com/mycustompage0041.htm

April 12, 2015

Winnipeg ARC Spring Flea Market, Winnipeg, Manitoba, Canada
www.winnipegarc.org/flea_market.html

April 18, 2015

Brainerd Area Hamfest, Brainerd, MN
www.brainerdham.org/

May 2, 2015

Duluth-Superior ARAC Hamfest, Superior, WI (first Saturday of May)
www.thearac.org/ann14.htm

May 15-16, 2015

RADIO DAZE 2015, St Louis Park, MN
Vintage radio auction and swap meet (not a general hamfest)
www.northlandantiqueradioclub.com/

June 6, 2015

TwinsLAN Tailgate Swapfest, Maplewood, MN (always the first Saturday of June)
www.twinslan.net

July 11, 2015

MAGIC Tailgater Yard Sale, Roseville, MN
www.magicrepeater.net/

July 11, 2015

51st International Hamfest
The Peace Garden, N. Dakota/Manitoba border
www.mts.net/~holderr/ihf.htm

July 18, 2015

CVARC Tail Gate Swap Fest, Chippewa Falls, WI
www.w9cva.org

Aug 2, 2015

CVARC Summerfest, Cedar Rapids, IA
www.cvarc.rf.org/2014Summerfest.pdf

Sept 19, 2015

SMARTFEST 2015, Henderson, MN (SW of Belle Plaine)
www.arrl.org/hamfests/smartfest-2015

An old Swede told me:

*(Or maybe It was the Ol'
Northwoods Minnesotan
dat tol me dat).*



**ALWAYS BE MURE
CONCERED WIH YUR CHARACTER TEN
YUR REPOTUTION BECAUSE CHARACTER
HIS WAT YOU REALLY ARE, YUR
REPOTUTION HIS MERELY WHAT OTERS
TINK YOU ARE**



ARES Breakfast

Saturday April 11th
7:30AM
Perkins Restaurant
Savage, MN

NECOS Schedule April 2015

The first Monday or the month the net is held on the WB0RMK repeater, Carver. You will find WB0RMK here: 147.165/765 PL 107.2

April 2015

Apr 6 KD0UWZ Chad

Apr 13 KC0YHH Tony

Apr 20 KB0FH Bob

Apr 27 N0BHC Bob

May 2015

May 4 KD0UWZ Chad

May 11 KC0YHH Tony

May 18 KB0FH Bob

May 25 N0BHC Bob