



NOARS Log



June 2018

K8KRG

Volume 54, Issue 6

Table of Contents

President's Message	1
Message From the VP	2
Member Highlight: Joe Cebula, W8GWD	3
Meeting Attendance, Birthdays, Heard on the Nets, Net Controls	4
Calendar of Events	5
NOARSfest	6
Ham Shack Photo Tour	7
Tech Savvy	8
Hamvention Report	9
Meeting Minutes	10
For Sale	11
Free Stuff	13
NOARS Information	14
Pre-Field Day Meeting	15
Field Day Flyer	16, 17
Bob Plow, W8NNC presentation slides are after page 17	

Prez Sez

Again, I want to stress this - you should be planning and preparing for Field Day. I expect greater NOARS participation this year from our members. Don't let LCARA outdo us at Field Day. Even if you can only be there during the daytime, be there. You can work the bands that are only usable during daylight hours. This year we will have proper signage, all thanks to Tom, W1DPI, at this major event, so everyone knows who we are and why we are there and what is occurring. If you were at the May 2018 meeting, you will have seen some of the signage. So, get your antennas and equipment ready. If you are able, bring what is needed to stay overnight. I assume we will have pizza that evening and a sumptuous breakfast on Sunday morning, like last Field Day 2017. I would like to see all members in NOARS or ARRL apparel at Field Day this year.

Please, when speaking with fellow Hams,

promote our repeaters, NOARS membership, and meetings. I know some of you already do this, but we all need to do this, as I feel we have as good a group of members as anyone in the area. In other words, recruit, recruit, recruit.

Please, any member with any equipment belonging to the club, email the required info to Tom Miller W1DPI (w1pdi@arrl.net). Needed info is: name and call sign, item name and description, location, serial number, and condition. Items will remain at its current location; we just need to know what we have and where it is.

And remember, if you have a good idea of an event where we can participate, something we can do to help our communities, or help our fellow hams, speak with an officer or board member about it.

73,

Dave, KY8OSU

NOARS President

June Program

System Fusion and WIRES-X— Carl, W8KRF, will discuss System Fusion's C4FM and WIRES-X. DG-ID and DG-IP will be included. This is your chance to find answers to questions about either mode. Come to the program with your

questions. Better yet, send questions to Carl before the meeting. This way he can make sure to have an answer for you. If a question is about a specific System Fusion radio, state the model. Send your questions to noars@noars.net.

June Meeting

Monday June 18, 2018

The doors will open at 6:00 PM and the meeting will start at 6:30 PM. Coffee and donuts will be available. North Ridgeville Public Library, 35700 Bainbridge Rd., North Ridgeville, OH. All are welcome.

Nets

NOARS nets are Tuesday nights at 8 pm on 28.370 MHz, and Thursday nights at 8 pm. on 146.700 MHz. All licensed amateurs are welcome. Participation is encouraged and appreciated.

Message From the VP

Since being licensed as a tech in 1991 I had been a 2 Meter packet player, opening gateways all over the USA to make contacts. A good friend was the pioneer on UHF packet where the bandwidth was a little wider. Packet contacts were common with space crews until NASA flights were slowed down. Some others licensed made voice contact with astronauts – this was the fun on FM. When I found out NOARS was having a program about PSK31 at the membership meeting, I went online to see what today's equipment can do – as usual, a much-miniaturized version of what I used when I was dreaming of a general license. But behold, there is a lot of airwave space codeless technicians can use for digital contacts, which includes PSK, SSTV and others. I

found online a kit called "Easy Digi" that has parts and a board smaller than a credit card for under \$10. I promptly ordered one to have running for Field Day. My last running SSTV board had bulky parts taken from old telephone equipment. Bob, W8NNC, showed us how to setup Digipan in about 15 minutes and that includes testing the settings. You will probably have time for some iced tea as you test this. You will be on the air pretty quickly, but be sure you turn off all your sound themes so the computer does not send out your favorite sports car revving up or Westminster chimes on the hour while you are engaged in a QSO. This kit includes a PTT control which may not be needed if your transceiver has VOX. I am looking forward to Field Day; I am going to run 902 band, plus digital on 15 as well as 6 meters, thanks to Bob's demo. Now time to update the bug spray. 73... N8PZD

Look for the latest Field Day information in AI's, N8CX, flyer on page 15, 16 and 17 of this newsletter.

First Monthly Club Meal!

The first monthly club meal will be at Golden Corral in Elyria at noon on Tuesday, June 5. Please join us for this social time. Guests are welcome. Monthly meals will be on the first Tuesday of each month at noon, though maybe not always at the same place. An RSVP is

encouraged, though not required. Do that on MyGrove, or contact Dave, KY8OSU; Elaine, KC8FOS; or a member of the Board. We'd like to tell the folks at Golden Corral how many we will probably be.



Member Highlight: Joe Cebula, W8GWD

A Young Man and Electronics

As a teenager Joe was interested in short wave radio. Being capable in electronics, he built a shortwave receiver, including the circuit. Looking back on that now, he says it was a wonder he didn't electrocute himself. From short wave Joe moved to amateur radio and received his first license in 1950 at the age of 19. Joe's first contact was on 160 meters, with Jack, a fellow ham and friend. He has maintained contact with Jack, who has since moved to Florida.

1950 an Exciting Year

After receiving his license, Joe joined with like minds, and was a charter member of LCARA, the only club in the area at the time. Joe took part in the club's first Field Day that year, using a homebrew 6L6 vacuum tube CW transmitter. It was in a Lorain County Metropark, and they stayed overnight.

Korea

Joe was drafted into the U.S. Army when he was 20 and completed basic training in California. After basic he trained for heavy weapons. However, Joe's path took a turn, and he was sent to radio repair school, after which he "got to repair radios. That was a good duty. I loved that." The radios were 10 to 6 meters and used to train operators and communication officers.



GI Bill

After military service Joe went to college on the GI Bill, receiving a degree in Electrical Engineering from Tri State College in Angola, Indiana. After college Joe returned to Ohio and worked for General Electric in Cleveland.

NOARS and Service to the Radio Art

Joe returned to Elyria in 1975 and joined NOARS. Joe attends NOARS meetings, submits monthly articles about antennas to the NOARS Log, and supports the nets. Most notably, Joe contributes by taking part in VE examinations, held monthly at the Elyria Red Cross. To date Joe's taken part in 168 VE sessions. He was presented with an award from NOARS for his dedicated service in this manner.

Proud Moment

An accomplishment that still makes Joe smile was building a 6 meter AM station, including the power supply, from scratch, for use in the car or shack.

Favorite Things About Amateur Radio

Joe's current rig is a Kenwood TS570 S. While a rig is vital to communication, Joe's first love is antennas, with which he continues to experiment and build. Joe says building, home brewing, and electronics are what he enjoys most about amateur radio. After many years, his philosophy continues to be "learn by doing."

New Net Control Station

Elaine, KC8FOS, will serve as Net Control Station of the NOARS 10 Meter Net the first Tuesday of each month. The net meets every Tuesday at 8 PM on 28.370 MHz.

Other 10 Meter Net Controls are typically Tom, W8KYZ; Dave, KY8OSU; Bob, W8RET; Tim, NC8X; and Mark, K8WON.

May 2018 NOARS Membership Meeting Attendance

Dave, W1AFC	Dave, W8KFJ	Bob, W8OOT	Gary, KD8VIQ
Dan, W8AJF	Carl, W8KRF	Tom, W1PDI	Bill, K2WJS
Tom, N8FDY	Tom, W8KYZ	Alan, KF8PM	Tom, W8WLI
Elaine, KC8FOS	Dave, KD8MXE	Clark, N8PZD	Leon, KB8WUA
Joe, W8GWD	Bob, W8NNC	Bob, W8RET	Tim, NC8X
Harold, K8HRD	Jim, KD8OCW	Joe, W8SSE	Al Higgins - Guest
Frank, KE8JON	Dave, KY8OSU	David, KD8TJD	

June Birthdays - Happy birthday!

Bob Sull, W8IMO
 Thomas Binns, KE8BTR
 Fred Stillwell, AA8S



If your birthday doesn't appear here it's a good chance that it's not in our database. Please contact Carl, W8KRF so we can wish you a Happy Birthday!

Heard on the Nets

W8RET	N8WS	KA8BPU	KD2HCE
W8KYZ	WB8UPA	W1PDI	K8KBZ
NC8X	WA8ERA	K8RTR	N8PJD
K8WON	K8AGV	K8KGX	K8JWL
KD8VTX	KD8VIQ	K2WJS	N8PZD
K8AGW	KC8FOS	W8GWD	N8XNV
KY8OSU	N8FDY	W8OOT	KE8NN
W8KRF	K2KSU	KE8GKO	KC8AGU
W1AFC	K8IIT	N8CWF	
W8WLI	WD8CSP	KD8NGE	



Thanks to May Net Controls

Elaine, KC8FOS
 Tom, W8KYZ
 Dave, KY8OSU
 Bob, W8RET
 Tim, NC8X

June 2018

Sun

Mon

Tue

Wed

Thu

Fri

Sat

					1	2
3	4	5 First NOARS Monthly Meal 12 Noon 10M Net 8 PM	6 BRTN 9:30 PM	7 2M Net 8 PM	8	9 Pre-FD Meeting 10 AM
10	11	12 10M Net 8 PM	13 BRTN 9:30 PM	14 2M Net 8 PM	15 LCARA Meeting 7 PM	16
17 VE Testing 1 PM	18 NOARS Meeting 6:30 PM	19 10M Net 8 PM	20 BRTN 9:30 PM	21 2M Net 8 PM	22	23 Field Day 9 AM
24 Field Day until 2 PM	25	26 10M Net 8 PM	27 BRTN 9:30 PM	28 2M Net 8 PM	29	30

NOARSfest 2018

Saturday, July 21, 2018

Doors open 8 AM until 12 PM. Vendors set up at 6:00am

The Spitzer Conference Center
Lorain County Community College
1005 North Abbe Road
Elyria, OH

Admission \$7.00.

For Table Reservations Contact Tom Porter, W8KYZ, at (440) 320-5523 before 10 PM.

For more information send email to noarsfest@noars.net or go to the NOARS website at <http://noars.net>

Great Lakes Division Hamfests June 2018

06/02/2018

Fulton County Amateur Radio Club Summer Fest
Roth Family Woodlot
105 Hill Avenue
Wauseon, OH
Website: <http://k8bxq.org/hamfest>

06/02/2018

Hudsonville Independent Repeater Association Hamfest
Hudsonville Fairgrounds
Hudsonville, MI
Website: <http://w8ira.org/wp-content/uploads/2018/03/IRA-Hamfest-2018-Full-Sheet-03-13-18.pdf>

06/02/2018

Princeton Ham Radio Cluc Hamfest
Princeton Fire and Rescue Training Center
2001 Highway 62 West
Princeton, KY
Website: <http://www.w4kbl.org>

06/03/2018

Chelsea Amateur Radio Swapmeet
Chelsea Fairgrounds
20501 West Old US Highway 12
Chelsea, MI 48118
Website: <http://wd8iel.com>

06/09/2018

Luce Amateur Radio Society Hamfest
Pentland Township Hall
15474 Highway M-28

Newberry, MI

Website: <http://www.facebook.com/LuceAreaHams>

06/09/2018

Union County Amateur Radio Club TailGate & TrunkFest
New Horizons Baptist Church
17939 Paver Barnes Rd.
Marysville, OH 43040
Website: <http://www.ohiohams.net>

06/16/2018

Midland Amateur Radio Club Swap
Salvation Army Building
330 S. Waldo Rd.
Midland, Michigan
Location: Midland, MI
Website: <http://www.w8kea.org>

06/16/2018

Clermont County Fairgrounds
4H Exhibit Hall
1000 Locust St.
Owensville, OH
Website: <http://www.w8mrc.com>

06/17/2018

Monroe County Radio Communications Association
Hamfest
Monroe County Fairgrounds
3775 South Custer Road
Monroe, MI 48161
Website: <http://www.mcrca.org>

Thanks, Bob, W8NNC, For the Wonderful Program in May About PSK31!

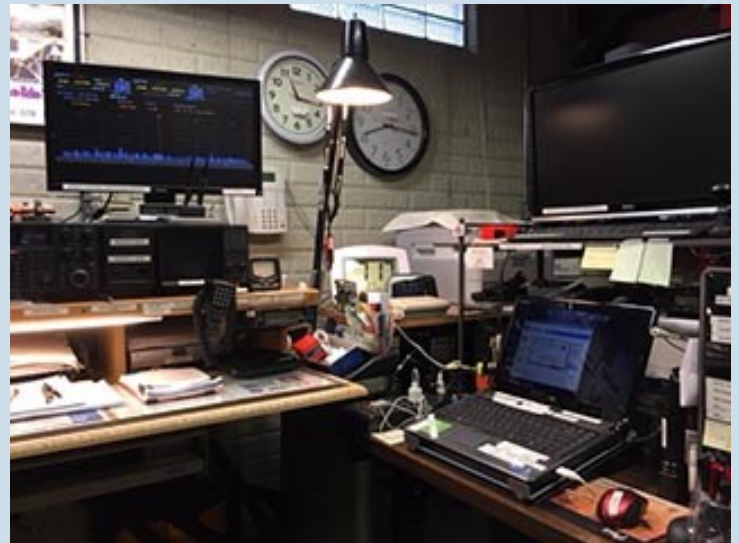
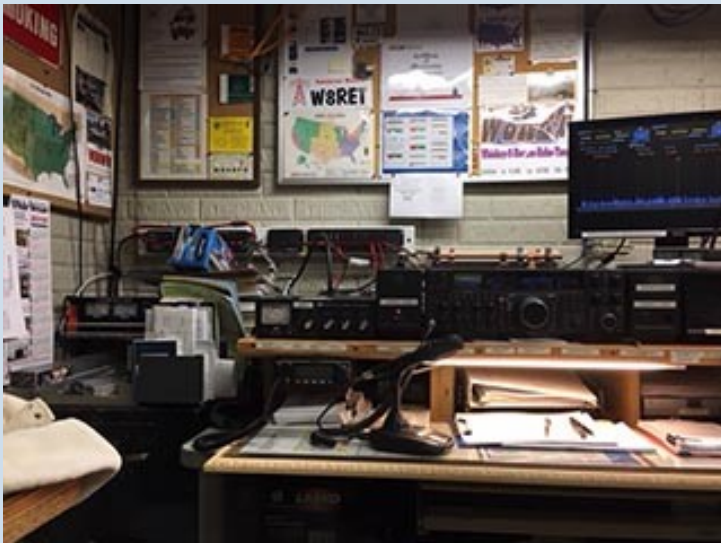
Bob Plow, W8NNC, presented an informative, clear, and laid-back introduction to PSK31. This tried and true digital mode will be useful in this continuing time of lower sunspot activity, which makes for challenging bands. All his Power Point slides are at the end of this newsletter.



Ham Shack Photo Tour

This is Bob, W8RET's ham shack. Now when we hear him on the nets we'll be able to picture where he's transmitting from. Thanks, Bob!

Would you like to give NOARS readers a virtual tour of your shack? All you need to do is send photos to Elaine or Tom Wilkinson. Our emails are in the club's roster.



Tech Savvy

By Joe Cebula, W8GWD

ANTENNA BASICS

Query No. 4

Q. How can the length of a coaxial feedline be determined if the velocity factor is known?

A. Disconnect the feedline at the antenna feedpoint and, if the connector is a PL-259, reconnect to a SO-239 mating connector with the center pin connected with a short wire to the mounting flange. Connect the other end of the feedline to an antenna analyzer. Slowly tune the analyzer up from the lowest frequency until the analyzer indicates zero resistance and read the frequency. Determine the length by using the expression:

$$L = \frac{492 \times VF}{F}$$

where L = Length (feet)
VF = Velocity Factor of the feedline
F = Frequency (MHz)

The length in feet will contain a decimal foot value; to convert into feet and inches is time consuming, but converting to a metric value is more efficient. Simply multiply the foot value by 304.8 to convert to millimeters. Since all measuring tapes are calibrated in inches and millimeters, measuring is not a problem. If the millimeter length contains a decimal value such as 3156.35, round the number up or down to the next whole number, such as 3156 or 3157. The maximum error will be less than 0.03937 inches in a typical case. The completed feedline must be as close as possible to the calculated and the metric approach makes this possible.

73

Joe, W8GWD



Newsletter Submissions

Email submissions for the Log to noarslog@noars.net.
The deadline is seven days before the first of the month.

That gives us time to create and get the Log uploaded to the Website.

Report on Hamvention 2018 by Elaine, KC8FOS

At the end of my report on Orlando's Hamcation in the March issue of the NOARS Log I stated that Hamvention is the better deal of the two. Here is my review and estimation of Hamvention 2018.

Tom and I walked through all the buildings and looked at all the vendors and what they had to offer. As at Hamcation, all the big vendors were there. This included Yaesu's, first-time, worldwide unveiling of its FTDX 101D SDR radio, displayed in a clear plastic dome in the Yaesu booth. It's an HF/50MHz 100W transceiver, and caused a log jam at the Yaesu booth. This first look ever at Yaesu's new radio was an indication of the importance of Hamvention.

The forums at Hamcation were in far-flung, hot, sometimes uncomfortable outdoor spaces. Hamvention forums were in comfortable indoor spaces which were easily found. We found the forums to be more informative and satisfying at Hamvention. Forums we attended were:

- Remote Access to Your Amateur Radio Station, presented by a volunteer for Flex Radio.
- ARRL Public Service Communications: Getting Started in Public Service Communications. The best way to start is to get involved is by joining an ARES group.
- Ham Radio and the Law, concerning club liability, the FAA Extension, Safety, and Security Act of 2016, and the Amateur Radio Parity Act. The Parity Act can be variously interpreted as was evidenced by a brief somewhat heated debate between the presenter and an attorney in the audience.
- System Fusion, presented by John Kruk of Yaesu.
- Ham Nation. A segment of this popular program was recorded. Look for it on YouTube at <https://www.youtube.com/watch?v=SksjJhHOQOg>
- ARRL Member Forum at which ARRL President Rick Roderick emphasized the need to bring younger hams into the hobby. Dale Williams, Great Lakes Division Director discussed proposed new ARES

guidelines.

- VHF/UHF/Microwave Forum, moderated by Tony Emanuele, K8ZR.
- Reaching the Public with Ham Radio. ARRL staff shared many excellent ideas for presenting ham radio to the public.
- Receiving Antennas for Radio Amateurs, by Eric Nichols, a presentation of snippets from the author's book by the same name.
- The Portable Magnetic Loop Antenna, a presentation of the Alex Loop by its creator, Alex Grimberg. Alex uses the antenna in his high rise apartment by clamping it onto the balcony railing, then removing it when done.

Parking at both venues was on grass. Orlando's sunny dry weather kept the ground firm, making parking better, while the Dayton area experienced rainy weather which resulted in some mud. DARA learned from their parking experience last year. Major parking improvements were in place, such as lots of large clear signage, crews of volunteers directing traffic to parking spaces, and many carts to take folks from the parking areas to the gate, keeping feet comfortable. One DARA member jokingly said they were looking into improving the weather next year.

Which flea market was better was a toss-up. Some of Hamcation's flea market was in a building, another part in a tent, and the rest on concrete. No mud there, but it was hot enough that strolling around looking at things was challenging. The weather was cooler, but wet, at Hamvention's flea market. Some of it was in a tent, with the majority on grass with its attendant muddy walkways, making shoes a dirty mess.

All in all, despite parking and flea market drawbacks, Hamvention is our favored large hamfest, due mostly to the quantity and quality of its vendors and forums. And of course, it's an easy drive to get there. To improve my experience at next year's Hamvention, I will pack waterproof boots as well as an umbrella.

May 21, 2018 Meeting Minutes

Submitted by Elaine Wilkinson, KC8FOS

******* Prior to calling the meeting to order Dave, KY8OSU, and Tom, W8KYZ, displayed road signs and one of the banners supplied by Tom, W1PDI. All agreed they were good looking and well done.

The meeting was called to order at 6:36 PM by President Dave, KY8OSU. Twenty-seven members and guests were in attendance.

The Pledge of Allegiance was recited, followed by roll call by call sign.

Gary, KD8VIQ, made a motion to accept the minutes of the March 2018 meeting, as published in the newsletter. Jim, KD8OCW, seconded the motion. The motion passed.

Treasurer's Report Treasurer Tom Porter, W8KYZ, gave the treasurer's report. A motion to approve the report was made by Dave, W8KFJ, and seconded by Joe, W8SSE. The report was approved as read.

President's Report Dave reported on business from the last Board meeting. LCARA will be asked to join MyGrove, as well as join us for the Holiday Banquet. He updated the group on Holiday Banquet planning, including his gathering information for possible venues. He also related planning for the Annual Picnic, including what members of the Social Committee will bring.

Parliamentary Committee Bob, W8RET, reported things are going well.

Club Property Tom Miller, W1PDI reported he hasn't reached out to anyone concerning the club property they are holding.

Programs President Dave announced that programs for most of the rest of the year have been set.

Repeater Committee The CAT controller is being worked on.

Website Committee No comment.

Membership Committee Carl, W8KRF, said we have 83

members.

Field Day Al, N8CX, Field Day Committee Chairman, was not in attendance. President Dave reminded all to participate in Field Day, to at least stop by the site.

Social Committee Elaine, KC8FOS, reminded members of the first Club Meal, which will be at the Golden Corral in Elyria at noon on Tuesday, June 5.

NOARS Hamfest Talk up the Hamfest on the nets. Scheduled for July 21st, starting at 8 AM at Lorain County Community College.

Sunshine Tom, W8KYZ, related information, including names of some of the club members who attended the memorial service for Richard Cervelli, K8RWC, held Saturday, April 21 in Norwalk.

Nets Bob, W8RET, said the nets are going well. Elaine, KC8FOS, is a new Net Control Station on the 10 meter net. She will be NCS the first Tuesday of each month.

VE Tom, KY8OSU related that on May 20 an eleven-year-old girl from north of Flint, Michigan passed the Technician license exam. The Elyria Red Cross building was the closest VE testing site to her home.

Newsletter Tom, N8FDY, reminded club members submit anything they want in the newsletter seven days before the end of the month. Co-Editor Elaine, KC8FOS, will be out of town on the last day of the month, so Tom will be finalizing the Log on his own.

Old Business Carl, W8KRF, briefly discussed MyGrove, highlighting the benefits to club members of this secure social network.

New Business Tom, W8KYZ, expressed thanks for the many plastic grocery bags collected. They will be given to an organization that will use them to benefit the homeless.

A motion was made to adjourn the meeting by Clark, N8PZD, seconded by Al, KF8PM. The motion passed. The meeting was adjourned at 7:02.

The DX Engineering Retail Showroom

More products on the shelves—get hands-on with the newest radio gear!



Plus:

Friendly service
Expert tech advice from active Hams
Open-box deals
Free product brochures
Easy return processing

In-person customer support

9 am to 5 pm, Monday-Saturday

The DX Engineering Retail Showroom

Inside the Summit Racing Retail Super Store
1200 Southeast Ave., Tallmadge, Ohio

Open from 9 am to 9 pm, seven days a week



For Sale from the Estate of Rich, K8RWC, SK

- Mosley AM-14-2. 14 elements 2 meter beam antenna. New. \$250.00.
- Yaesu speaker. Best offer.
- Yaesu FV-401. External VFO. Best offer.
- Yaesu FTV-650. 6 meter transceiver. Best offer.
- Yaesu FL-DX 2000 linear amplifier. 110/220V. \$400.00.
- Heathkit HW-22 40 meter transceiver. Includes power supply and manual. \$200.00.
- Tubes: 8417-P; 1K3A1J3 (Sylvania); IV2 (Sylvania); OB2
- Contact William Cervelli, KC8Vfy, at 419.706.3869.

For Sale by Bill, KE8DIF

- MFJ 10 Meter SSB Tranceiver (MFJ 9410) with power supply and MFJ Portable Tuner (MFJ – 971). Like New. Both \$200

Contact Bill at 216-470-2774 or bill.eyman@gmail.com

Drake 4 twins for sale by Sandy Whitney, W8KYS

Drake R4C and Drake T4XC pair for sale by Sandy, W8KYS. Very clean with money back guarantee, \$600. Call Sandy at 440-647-2255.



For Sale by Ted Neuhaus, W8GUH

Icom M5 marine radio handheld transceiver with case and charger. Excellent condition. Needs battery. \$50.00.

Contact Ted at 440-787-7225, or email him at xrayted10@aol.com

For Sale by Tom, W8KYZ, 440.930.9115

- Heil HC-5 headphones with mic. Use with or without hookup for TS-480. \$30.00
- Yaesu YSK-7800 transceiver separation kit. New \$25.00
- Tempo HM-5 mic. New. \$1.00
- Larson mobile coil (NLA-220). New. \$5.00
- Larson mobile coil (LM-150) \$3.00
- New Cabelas multitool with nylon sheath. \$5.00
- Regency HR-2MS, with crystals, mobile bracket, mic, and manual. \$25.00

For Sale by Bob, W8RET, 440.365.6829

- Icom 7000 100W HF/6M/VHF/UHF. Original box/manual, mobile mounting bracket (MB-62), starting at \$850.00 OBO
- LDG AT-7000 Tuner for 7000, starting at \$150.00 OBO
- Icom CT-17 convertor for 7000, starting at \$35.00 OBO
- LDG Antenna Tuner Z-11 PRO II . 160-6M. 125 W. Original box/Manual, starting at \$150.00 OBO
- Yaesu ATAS-120, Antenna system/Mobile/Portable/Balcony use. 7/14/18/21 MHZ, starting at \$200.00 OBO
- Icom IC-2820H, 2/440 D-STAR with Icom UT-123 Digital GPS unit. Original box/manual, starting at \$400.00 OBO

Ad Submission Guidelines

Electronic ads may be emailed to noarslog@noars.net.
Printed ads may be sent to NOARS Log, 161 Herrmann Drive, Avon Lake, OH. 44012 The deadline for submissions is seven days before the first day of each month. All must include: asking price, sellers name, call sign and phone number. Only ads from current NOARS

members or paid advertisers will be accepted. If your items sell, please notify the Log editors at noarslog@noars.net so the ad can be removed. All ads will be removed (unless updated) after four months. NOARS reserves the right to refuse ads.

Free Roof Tower, 2m Antenna, and Hardline

From Tim Hitesman - I haven't been active for more than a decade but am still licensed (NR8T). I will be moving in just a few weeks and must remove a roof tower and feedline before the sale of our home is final but my wife (N8INI) refuses to allow me on the roof. I'm 73.

I would love to donate the roof tower, 2m antenna and hardline (yes - hardline) in return for its removal and patching the roof (I have spare shingles). Would you be so kind as to ask your members to spread the word and contact me if interested? My contact info is below.

Glen Martin 8 ft roof tower; Ranger 2m antenna; about 70 ft of 3/4" solid copper jacket commercial hardline.

Contact info

Tim Hitesman

tim.hitesman@gmail.com

356 Bradley Road

Bay Village OH 44140

216-570-6019

Ted Neuhaus, W8GUH, has Antique Radios Free to Good Home

- HealthKit 2M FM transceiver with manual.
- Yeasu FT 23R 2M handheld transceiver with charger and case.
- Motorola six-crystals-controlled 2M mobile FM transceiver, with manual and mounting bracket.
- Drake dynamic desk microphone.

All are cosmetically good.

Contact Ted at 440.787.7225, or email him at xrayted10@aol.com if you are interested



NOARS Information

Members of the Board of Directors

President: Dave, KY8OSU

Vice President: Clark, N8PZD

Secretary: Thomas, N8CWF

Treasurer: Tom, W8KYZ

Others: Carl, W8KRF; Tim, NC8X; Tom, N8FDY

Others

Net Manager: Bob, W8RET

Club Trustee for K8KRG: Al, N8CX

Repeater: Carl, W8KRF, and Tim, NC8X

NOARS Log Editors: Tom, N8FDY, and Elaine, KC8FOS

Membership

Membership is open to anyone interested in radio communication. Dues are: Full \$15, Associate (non-licensed) \$7, Family members of a full member are \$4 each. Membership forms are available at www.noars.net. Make checks payable to NOARS and mail them to: NOARS Membership Committee, 161 Herrmann Drive, Avon Lake, OH 44012.

Meetings

Meetings are held at 6:30 p.m. on the third Monday of every month at the North Ridgeville Branch of the Lorain County Public Library, 35700 Bainbridge Rd, North Ridgeville, OH. The doors open at 6:00 PM for a social time with coffee and donuts.

Meetings are open to the public and all are welcome.

Committees

Parliamentary Committee: Bob, W8RET.

Repeater: Carl, W8KRF

Field Day: Al, N8CX

Hamfest: Dee, KA8VTS.

Sunshine: Tom, W8KYZ (temp)

Membership: Carl, W8KRF

Club Property Committee: Tom, W1PDI

Program Committee: Open

Social Committee: Elaine, KC8FOS, Dave, KY8OSU, Thomas, N8CWF

Public Relations Committee:

Dave, KY8OSU, Elaine, KC8FOS, Thomas, N8CWF



Nets

NOARS nets are Tuesday nights at 8 pm on 28.370 MHz, and Thursday nights at 8 pm. on 146.700 MHz. All licensed amateurs are welcome.

VE Testing

VE Testing is offered the third Sunday of every month.

2929 West River Road
N. Elyria OH 44035,
from 1-3 PM.

Burning River Traffic Net

The Burning River Traffic Net uses the NOARS repeater (146.700 MHz) Wednesdays at 21:30.

NOARS / LCARA Field Day 2018

K8KRG / KC8BED

--> **Pre-Field Day Meeting** <--

! ALL ARE WELCOME !

Saturday, June 9th, 10 a.m. at Indian Hollow

--> **Field Day Weekend** <--

Saturday, June 23rd and Sunday, June 24th

Indian Hollow Reservation (Parsons Rd) – Grafton, OH

Setup on Saturday, June 23rd at 9:00 A.M. (many arrive earlier)

! REMEMBER !

! Field Day means FUN for everyone !

Bring yourself - your family - fellow hams - friends and neighbors

! ALL ARE WELCOME !

Questions or comments:

NOARS Contact Al, N8CX, n8cx@arrl.net Home 216-221-3682

LCARA Contact Eric, N8AUC, n8auc@arrl.net Home 440-555-3057

NOARS / LCARA Field Day 2018

- Pre-Field Day Meeting -

Sat, June 9, 2018

K8KRG / KC8BED

Field Day 2018

Saturday, June 23rd and Sunday, June 24th

Indian Hollow Reservation (Parsons Rd) – Grafton, OH

Setup on Saturday, June 23rd at 9:00 A.M. (many arrive earlier)

! Field Day means FUN for everyone !

Bring yourself - your family - fellow hams - friends and neighbors

! ALL ARE WELCOME !

Band Assingments

Our entry category will be **6A**

75 meters	PH	K8PJS, Pat	NOARS
40 meters	CW	N8AUC, Eric	LCARA
40 meters	PH	KY8OSU, Dave	NOARS
20 meters	PH	K8CSI, Bruce	LCARA
15 meters	PH	N8PZD, Clark	NOARS
10 meters	CW	N8CX, Al	NOARS
6 meters	<u>or</u> a GOTA station – One 'FREE Station' Allowed		

Bonus Points - those that we are planning to get: **1450 points** (checked) and those we would like to get (*)

- ✓ 600 points – 100 points for each Tx using generator power – 6 Tx
- ✓ 100 points – setup in a public location – Lorain County Metroparks
- ✓ 100 points – news media publicity – Public Relations Committe
- ✓ 100 points – public information table – Public Relations Committe
- ✓ 100 points – visit by a 'served agency' representative – Lorain County Red Cross
Jim, KD8OCW (LCARA) or Al, N8CX (NOARS)
- ✓ 50 points – filing Field Day report on the ARRL website – Al, N8CX
- ✓ 100 points – solar power contacts (5 QSOs required) – Eric, N8AUC
- ✓ 100 points – copy the ARRL bulletin – RTTY printout preferred – Eric, N8AUC, Al, N8CX
- ✓ 100 points – promoting club Field Day and location on Social Media – facebook, etc. – Dan, KB8LKH
- ✓ 100 points – youth operators - 20 points each - (age 18 or under, 5 ops max) – Scout Troop 225
- * 100 points – presenting a 30 minute educational activity: technical, public service, safety, etc. **OPEN**
- * 100 points – satellite contact (1 QSO required) – **OPEN!**

INTRODUCTION
TO
DIGITAL COMMUNICATIONS

BY
BOB PLOW W8NNC

INTRODUCTION
TO
DIGITAL COMMUNICATIONS

PSK31
CONVERSATIONAL
KEYBOARD TO KEYBOARD

PSK 31

LOW POWER

TYPICALLY 30 WATTS

QRP-----5 Watts

BANDWIDTH

- PSK 31----- 50 Hz
- CW-----60 Hz
- SSB (VOICE)----2,500 Hz

WHAT DO YOU NEED ?

WHAT DO YOU NEED ?

SSB TRANSEIVER

WHAT DO YOU NEED ?

SSB TRANSEIVER

COMPUTER (W OR W/O SOUND CARD)

WHAT DO YOU NEED ?

SSB TRANSEIVER

COMPUTER (W OR W/O SOUND CARD)

INTERFACE DEVICE

WHAT DO YOU NEED ?

SSB TRANSEIVER

COMPUTER (W OR W/O SOUND CARD)

INTERFACE DEVICE

SOFTWARE

SOFTWARE

Digipan

Fldigi

Multipsk

Frequency

1.838 MHz

3.580 MHz

7.035 MHz*

7.070 MHz*

10.142 MHz

14.070 MHz

18.100 MHz

21.080 MHz*

24.920 MHz

28.120 MHz

50.290 MHz

144.144 MHz

222.07 MHz

432.2 MHz

909 MHz

Amateur Band160 meter80 meter40 meter (*region 3*)40 meter (*regions 1,2*)30 meter20 meter17 meter15 meter12 meter10 meter6 meter2 meter1.25 meter70 centimeter33 centimeter

IC-746PRO

HF/VHF TRANSCEIVER



1.8 1	3.5 2	7 3
10 4	14 5	18 6
21 7	24 8	28 9
GENE	50 0	144 ENT

MP-W MP-R

TX XFC RX

F1 F2 F3 F4 F5

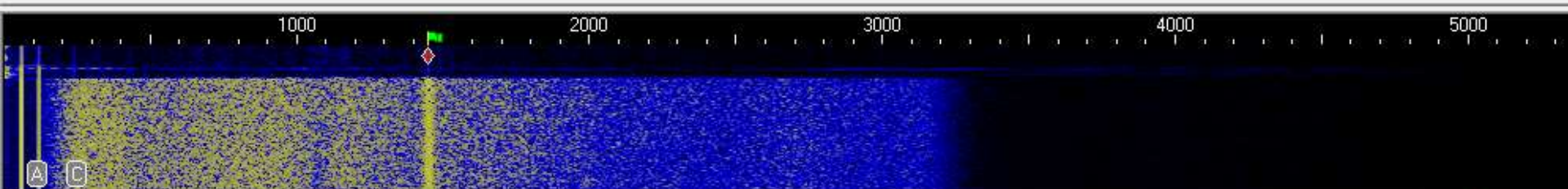
Lookup 1 CQ 2 Call 3 3 Call 4 BTU 5 736 BOB W8 QTH RS T/R 9 SQ 10 Clear 11 Multi ^

Call: Name: QTH: Rec'd: Sent: Band: Notes: *

20m

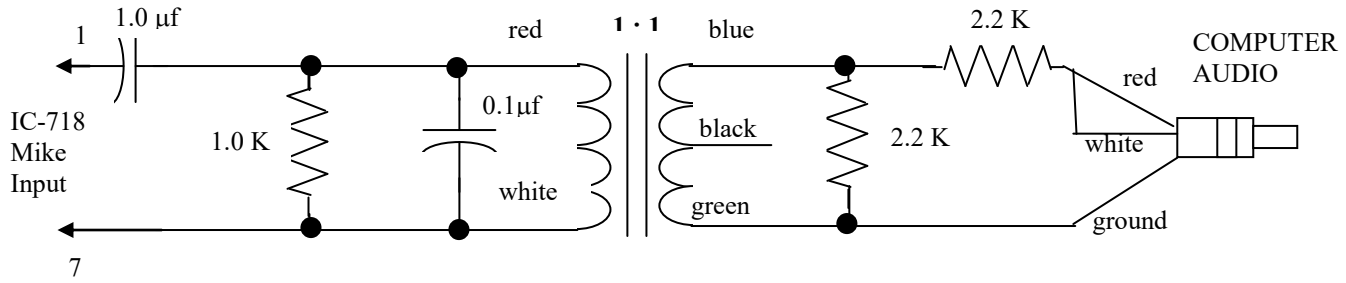
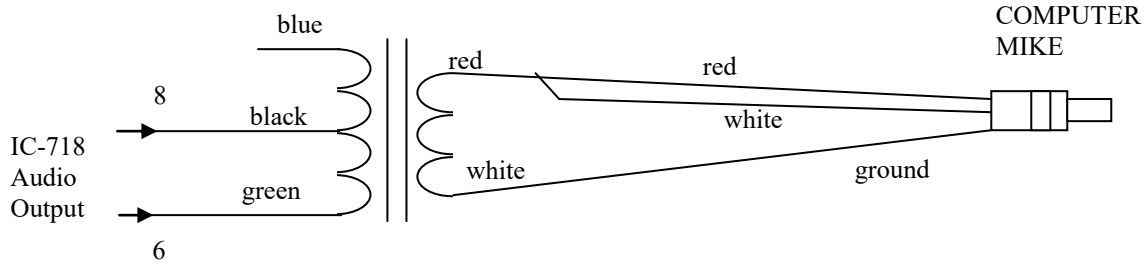
av n,era o a ou r family .. otpGod (lessb ... thank you for our P31 QSO on 14.071.450 4/16/2018 14:15:06 UTC ... QSL info on www.qrz.com/db/kf2gq ... N00RY de KF2GQ sk sk Ut0

- A:
- B: **Å o t te**
- C:
- D:
- E:
- F:
- G:
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:
- U:
- V:
- W:
- X:
- Y:
- Z:





IC-718 PSK INTERFACE





CONFIGURE




THE

DIGIPAN SOFTWARE

Lookup 1 CQ 2

- AFC
- Snap
- Squelch
- Squelch threshold...
- RX
- TX
- SB off
- Arrows for Seek
- Call lookup at ▶

BOB W8 QTH RS T/R 9 SQ 10 Clear 11 Multi ^

Rec'd: Sent: Band: Notes: *   

20m ▼

Int eF ou

A:
B:
C:
D:
E:
F:
G:
H:
I:
J:
K:
L:
M:
N:
O:
P:
Q:
R:
S:
T:

File Edit Clear Mode Options **View** Lock Configure Help

Lookup 1 CQ 2 Call 3 3

Call:

- Control Bar
- Log Bar
- Phase scope
- Bookmarks
- Status Bar
- Multichannel window
- UTC
- Flashing 'TX'
- Show frequencies
- Underline sent text

TH RS : T/R 9 SQ 10 Clear 11 Multi ^

Rec'd: Sent: Band: Notes: *

20m

r öiee oe e u o Dt
t e i o ïtbot ai e Na ·

A:

B:

C:

D:

E:

F:

G:

H:

I:

J:

K:

L:

M:

N:

O:

P:

Lookup 1 CQ 2 Call 3 3 Call 4 BTU

Call: Name:

- Personal Data...
- Fn macros ▶
- Ctrl-Fn macros ▶
- Load macros
- Save macros

- Waterfall drive...
- Transmitter drive...
- Sound card...
- Sample Rate Corrections ▶


- Serial port...
- Font...
- Colors ▶

- Band...
- Markers...
- Sound history...

Clear 11 Multi ^

Notes: *   

A:
B:
C:
D:
E:
F:
G:
H:
I:
J:
K:
L:
M:
N:
O:
P:

A dialog box titled "Personal data" with a close button (X) in the top right corner. It contains several input fields and controls:

Call: OK

Name: Cancel

QTH:

Use CWID Fast Slow

CWID:

D:
C:
D:
E:
F:
G:

V:
W:
X:
Y:
Z:

File Edit Clear Mode Options View Lock Configure Help

Lookup 1 CQ 2 Call 3 3 Call 4 BTU 5 736 BOB W8 QTH RS T/R 9 SQ 10 Clear 11 Multi ^

<u>C</u> all:	<u>N</u> ame:	<u>Q</u> TH:	Rec'd:	Sen <u>t</u> :	<u>B</u> and:	Notes:	*	
					20m ▼			

--

Lookup 1 CQ 2 Call 3 3 Call 4 BTU

Call: Name:

Clear 11 Multi ^

- Personal Data...
- Fn macros** ▶
 - F1 Lookup 1
 - F2 CQ 2
 - F3 Call 3 3
 - F4 Call 4
 - F5 BTU 5
 - F6 73 6
 - F7 BOB W8
 - F8 QTH RS 8
 - F9 T/R 9
 - F10 SQ 10
 - F11 Clear 11
 - F12 Multi
- Ctrl-Fn macros ▶
- Load macros
- Save macros
- Waterfall drive...
- Transmitter drive...
- Sound card...
- Sample Rate Corrections ▶
- Serial port...
- Font...
- Colors ▶
- Band...
- Markers...
- Sound history...
- Multichannel scroll ▶
- Multichannel inactivity timeout...

60'

- A:
- B:
- C:
- D:
- E:
- F:
- G:
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:
- U:
- V:

Edit user macro

Label for F2:

CQ 2

OK

Cancel

Text:

```
<TX>  
CQ CQ CQ  
CQ CQ CQ DE <MYCALL> <MYCALL> <MYCALL>
```

<<

- <MYCALL> - your callsign
- <MYNAME> - your name
- <MYQTH> - your QTH
- <CALL> - callsign of other station
- <NAME> - name of other station operator
- <QTH> - QTH of other station
- <RST> - RST for other station
- <MYRST> - your RST
- <NOTES> - QSO notes

Lookup 1 CQ 2 Call 3 3 Call 4 BTU

Call: Name:

Clear 11 Multi ^

- Personal Data...
- Fn macros** ▶
 - F1 Lookup 1
 - F2 CQ 2
 - F3 Call 3 3
 - F4 Call 4
 - F5 BTU 5
 - F6 73 6
 - F7 BOB W8
 - F8 QTH RS 8
 - F9 T/R 9
 - F10 SQ 10
 - F11 Clear 11
 - F12 Multi
- Ctrl-Fn macros ▶
- Load macros
- Save macros
- Waterfall drive...
- Transmitter drive...
- Sound card...
- Sample Rate Corrections ▶
- Serial port...
- Font...
- Colors ▶
- Band...
- Markers...
- Sound history...
- Multichannel scroll ▶
- Multichannel inactivity timeout...

60'

- A:
- B:
- C:
- D:
- E:
- F:
- G:
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:
- U:
- V:

Edit user macro

Label for F3:

Text:

```
<TX>  
<CALL> <CALL> DE <MYCALL> <MYCALL> <MYCALL>  
<RXANDCLEAR>
```

<<

- <MYCALL> - your callsign
- <MYNAME> - your name
- <MYQTH> - your QTH
- <CALL> - callsign of other station
- <NAME> - name of other station operator
- <QTH> - QTH of other station
- <RST> - RST for other station
- <MYRST> - your RST
- <NOTES> - QSO notes

OK Cancel

D:
E:
F:
G:
H:
V:
W:
X:
Y:
Z:

File Edit Clear Mode Options View Lock Configure Help

Lookup 1 CQ 2 Call 3 3 Call 4 BTU 5 736 BOB W8 QTH RS :

Call:	Name:	QTH:	Rec'd:
KCOJRW			

a QP CQ CQ NE QP de KCOJRW peo e-tee eitble t eee ao t e ft e t
 CQ NE QP de KCOJRWt u
 eee.

c o tte Peeafeet r.eten tjeo el o t o cGoet t icolso VECQ CQ N
 o lae

KCOJRW KCOJRW DE W8NNC W8NNC W8NNC PSE K

Í to e ot a
 t oo gt rtD eeQ eoetten ai
 ee y

eW8NNC COPY 599 BUFFALO ho

Lookup 1 CQ 2 Call 3 3 Call 4 BTU

Call: Name:

Clear 11 Multi ^

- Personal Data...
- Fn macros** ▶
 - F1 Lookup 1
 - F2 CQ 2
 - F3 Call 3 3
 - F4 Call 4
 - F5 BTU 5
 - F6 73 6
 - F7 BOB W8
 - F8 QTH RS 8
 - F9 T/R 9
 - F10 SQ 10
 - F11 Clear 11
 - F12 Multi
- Ctrl-Fn macros ▶
- Load macros
- Save macros
- Waterfall drive...
- Transmitter drive...
- Sound card...
- Sample Rate Corrections ▶
- Serial port...
- Font...
- Colors ▶
- Band...
- Markers...
- Sound history...
- Multichannel scroll ▶
- Multichannel inactivity timeout...

60'

- A:
- B:
- C:
- D:
- E:
- F:
- G:
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:
- U:
- V:

INVC - DigipAn


Edit Clear Mode Options View Lock Configure Help

Lookup 1 CQ 2 Call 3 3 Call 4 BTU 5 736 BOB W8 QTH RS T/R 9 SQ 10 Clear 11 Multi ^

Call: Name: QTH: Rec'd: Sent: Band: Notes: *   

20m

A:
B:
C:
D:
E:
F:
G:
H:

 Edit user macro

Label for F4:

Text:

- <MYCALL> - your callsign
- <MYNAME> - your name
- <MYQTH> - your QTH
- <CALL> - callsign of other station
- <NAME> - name of other station operator
- <QTH> - QTH of other station
- <RST> - RST for other station
- <MYRST> - your RST
- <NOTES> - QSO notes

Lookup 1 CQ 2 Call 3 3 Call 4 BTU

Call: Name:

Personal Data...

Fn macros ▶

Ctrl-Fn macros ▶

Load macros

Save macros

Waterfall drive...

Transmitter drive...

Sound card...

Sample Rate Corrections ▶

Serial port...

Font...

Colors ▶

Band...

Markers...

Sound history...

Multichannel scroll ▶

Multichannel inactivity timeout...

Clear 11

Multi

^

Notes:

*



RX window font...

RX window background...

Multichannel window font...

Active channel background...

No carrier background...

Inactive channel background...

Multichannel coloring effect...

TX window font...

TX window background...




Waterfall...

Lookup 1 CQ 2 Call 3 3 Call 4 BTU 5 736 BOB W8 QTH RS T/R 9 SQ 10 Clear 11 Multi ^

Call:	Name:	QTH:	Rec'd:	Sent:	Band:	Notes:
					20m	

- A:
- B:
- C:
- D:
- E:
- F:
- G:
- H:
- I:
- J:

Coloring

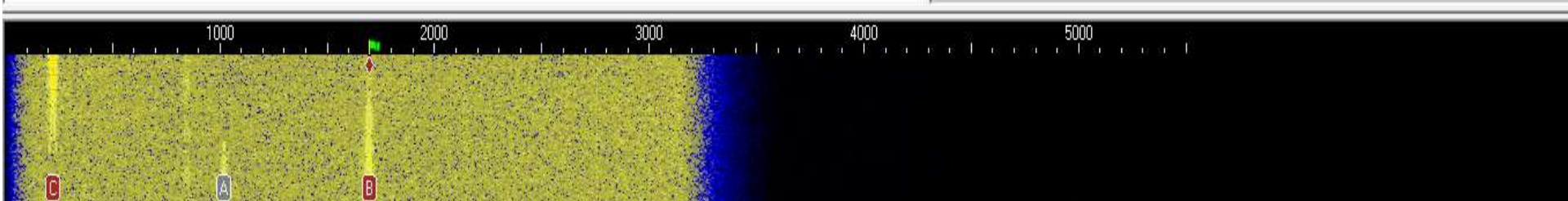
String1	CQ		OK
String2	QRZ		Cancel
String3			

Lookup 1	CQ 2	Call 3 3	Call 4	BTU 5	736	BOB W8	JTH RS	T/R 9	SQ 10	Clear 11	Multi	^
----------	------	----------	--------	-------	-----	--------	--------	-------	-------	----------	-------	---

Call:	Name:	QTH:	Rec'd:	Sent:	Band:	Notes:	*			
					20m					

Fo
 ea= eeffe eso o ont tereD wi
 CIFT CT2IFib efAoen e t i o et r oee ett io.{Gilio a ht t?
 natN
 toelÔ K06o kftt
 epe - in -e
 nele: E4
 Lins d in awanh B01e
 e
 ptu pcNOLD KD6BSL de KGgSAG knne8 KG5S deKD6BSL
 Probably I should post a pix of my operating station on my QRZ page...thiете aboeet it.
 n am wondering about ahat is hanpc.r o i àPSK digital traffthove t tmm oe antleei yF-iny BPSK ant aowell as a few o
 tte 2hei digital Ôdes= too. But what I really notice is that there appears to be a discontinuence of digital BPSK...g adli ly,
 as it appears to be going down hill full speed in favor of JT65 anf F w; re l
 .ae are moi
 users exercising their keyboards but not in comrison to what the
 est of the digital world which is dynamically experiencing worldwide contacts using other short and quick contact modes,
 those such as the popular hit-and-run, non-chat related digital modes.
 I keep thinking that this BPSK mode is going to die down to a trickle sooner than later, it was very popultr in the ar `ys b

- A: CT2lealtCT2IFT = CQ Nen ALL = CQ CQ CQ de CT2IFTCI CTeilFT pse K P te a:fm
- B: going to die down to a trickle sooner than later, it was very popultr io the ar `ys
- C: t u mp ria eoCQ CQ CQ de PA7RA PA7RA PA7RA CQ CQ
- D:
- E:
- F:
- G:
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:
- U:
- V:
- W:
- X:
- Y:
- Z:



Lookup 1 CQ 2 Call 3 3 Call 4 BTU 5 736 BOB W8 3TH RS 4 T/R 9 SQ 10 Clear 11 Multi ^

Call:	Name:	QTH:	Rec'd:	Sent:	Band:	Notes:	*			
KC0JRW					20m					

a QP CQ CQ NE QP de KC0JRW p eo e-tee eitbl.e t ee ao t e ft e t e ts iT*ez er lo i eth q i kCQ CQ Nebraska QP CQ
 CQ NE QP de KC0JRWt u
 eee.
 c otte Peaafet r.et en t j eo el o t o cGoet t icolso VECQ CQ Nebraska QP CQ CQ NE QP de KC0JRW e iÄtetb o
 o lae

KC0JRW KC0JRW DE W8NNC W8NNC W8NNC PSE K

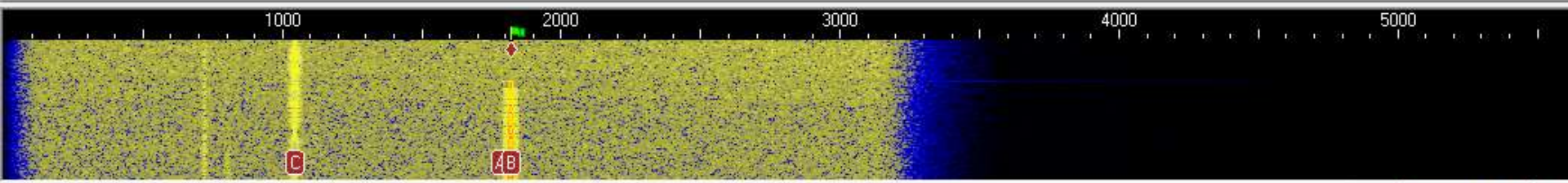
í to e ot a
 t oo gt r tD eeQ eoetten ai
 ee y
 eW8NNC COPY 599 BUFFALO ho
 ieeo 1 ia Gs a

.....KC0JRW DE W8NNC.....

TU 599 here in Ohio

M eís Ca - a etr nar W8NNC TU FOR TE CONTACT GL DE KC0JRW QRZe t e = om tel

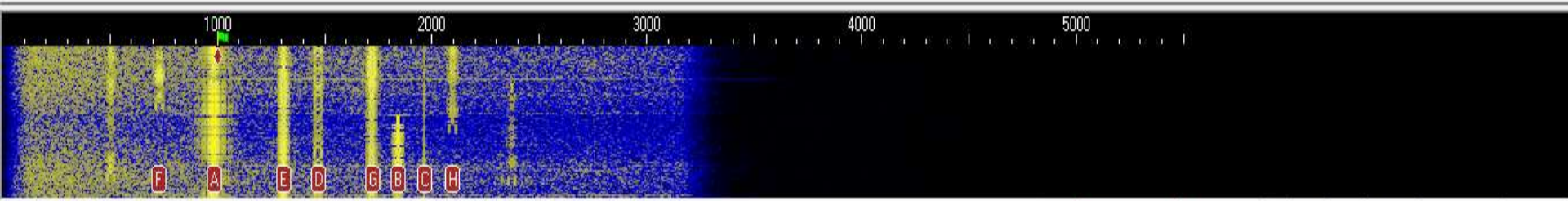
- A: oe sÅe tX =e e loeCs 8 tie e i e t e
- B: eti nar W8NNC TU FOR THE CON
- C: Bons QSLs e parabens por viver
- D:
- E:
- F:
- G:
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:
- U:
- V:
- W:
- X:
- Y:
- Z:



Lookup 1 CQ 2 Call 3 3 Call 4 BTU 5 736 BOB W8 JTH RS T/R 9 SQ 10 Clear 11 Multi ^

Call:	Name:	QTH:	Rec'd:	Sent:	Band:	Notes:	*			
					20m					

A: ore2Duo OS: Ubuntu Linux Soft: Fldigi 3.23.01 First licensed in 1963 as WN4NT
 B: WORKED BUT YOUR STILL 599 599 INTO ARKANSAS e #0 t teono oi Oit=Aot ie
 C: e ! elçe bo! tp!In e
 D: the same principal as your loop, but has to be in a straight line, very directiona
 E: an... but I go by "Leon" Qth: (Seommerville) suburb of Charleston, SC loc: EM92v
 F: FVY N6FVY pse k e 7eiE a eettee o fa ro acee to e nert (! CQ tQ CQ de N6FVM N6
 G: here? Hello Martin, Report : 599 599 Name : Geary Geary QTH: Lawton-Fort Sill,
 H: rONTA
 I:
 J:
 K:
 L:
 M:
 N:
 O:
 P:
 Q:
 R:
 S:
 T:
 U:
 V:
 W:
 X:
 Y:
 Z:



ADJUSTING
THE
TRANSCEIVER

- **SET THE POWER TO 100 WATTS**
- **CHECK *SPEECH COMPRESSOR* IS OFF**
- **SET THE TRANSCEIVER *MIC GAIN* TO MINIMUM**
- **ON THE COMPUTER, TOUCH *F9 (T/R)* TO TRANSMIT**
- **INCREASE TRANSCEIVER *MIC GAIN* TO SET THE OUTPUT POWER TO 30 WATTS**
- **MAKE SURE THE *ALC* IS NOT LIMITTING**
- **ON THE COMPUTER, TOUCH *F9 (T/R)* TO STOP TRANSMITTING**
- **YOU ARE READY TO GO. CALL *CQ***

Lookup 1 CQ 2 Call 3 3 Call 4 BTU 5 736 BOB W8 QTH RS T/R 9 SQ 10 Clear 11 Multi ^

Call:	Name:	QTH:	Rec'd:	Sent:	Band:	Notes:	*			
					20m					

CQ CQ CQ
CQ CQ CQ DE W8NNC W8NNC W8NNC pse K

- A:
- B:
- C:
- D:
- E:
- F:
- G:
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:

QUESTIONS ?