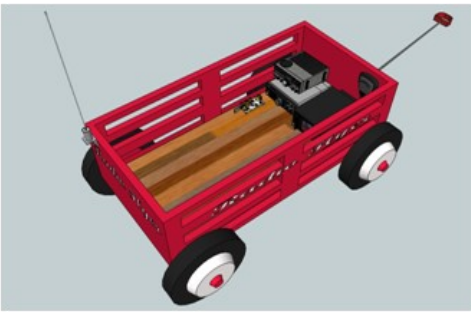


the Radio Flyer, *a BRARA Newsletter*

October 2017

New Official Website: www.BRARA.org



BRARA Calendar:

20:00-21:00 Sun 01-Oct-17 (443.300)
DMR-FL-LO Tech Net [TS2 TG2]

19:00 Mon 02-Oct-17 (145.29 [110.9])
Monday Night Nets

19:00-21:00 Tue 03-Oct-17
Club Meeting @ West Boca Library

09:00-12:00 Wed 04-Oct-17
Ham Shack Work & Radio Day

09:00-13:00 Sat 07-Oct-17
Ham Shack Work & Radio Day

20:00-21:00 Sun 08-Oct-17 (443.300)
DMR-FL-LO Tech Net [TS2 TG2]

Mon 09-Oct-17 Columbus Day

19:00 Mon 09-Oct-17 (145.29 [110.9])
Monday Night Nets

09:00-12:00 Wed 11-Oct-17
Ham Shack Work & Radio Day

Fri 13-Oct-2017 US Navy Birthday

09:00-12:00 Sat 14-Oct-17
Ham Shack Work & Radio Day

20:00-21:00 Sun 15-Oct-17 (443.300)
DMR-FL-LO Tech Net [TS2 TG2]

Mon 16-Oct-2017 Boss's Day

19:00 Mon 16-Oct-17 (145.29 [110.9])
Monday Night Nets

09:00-12:00 Wed 18-Oct-17
Ham Shack Work & Radio Day

09:00-12:00 Sat 21-Oct-17
Ham Shack Work & Radio Day

20:00-21:00 Sun 22-Oct-17 (443.300)
DMR-FL-LO Tech Net [TS2 TG2]

19:00 Mon 23-Oct-17 (145.29 [110.9])
Monday Night Nets

09:00-12:00 Wed 25-Oct-17
Ham Shack Work & Radio Day

09:00-13:00 Sat 28-Oct-17
Ham Shack Work & Radio Day

12:00 Noon Sun 29-Oct-17
Deadline for Newsletter Input

20:00-21:00 Sun 29-Oct-17 (443.300)
DMR-FL-LO Tech Net [TS2 TG2]

19:00 Mon 30-Oct-17 (145.29 [110.9])
Monday Night Nets

Tue 31 Oct-17 Halloween



This Month's Speaker

This month (3-Oct), we will review the effects of Hurricane Maria and the steps being taken in recovery: Shack and Repeater.

In November (7-Nov), John Cole (N1QFH) will elaborate on BRARA's revised Social Media website.

We have speaker openings for the balance of the year. See Gerry Gawaldo (KG4FUR) if you are interested or know someone who gives a great presentation.



Repeater, HSMM, & Ham Shack News

Even though the new Shack is operational, there are still a lot of areas for innovation and improvement. We still meet every Wednesday and Saturday morning roughly between 09:00 and 13:00.

Both analog repeaters are working. Innovation and improvement opportunities are present here too. The work on the new 2m antenna and connections are completed

Repeater 2m/70cm linking as well as the time stamp are still works in progress. We are still fund collecting for a new 2m repeater antenna.

While the digipeater is operational, the packet repeater is a work in progress.

We have still not solved the limited internet connection and are still dependent on individual hot spots. We are, however, getting closer to resolving the internet link from the Repeater.

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QSL Report ⁿ⁴ⁱⁱ

As we closed out the Month, N4BRF has logged in 3,053 QSLs 9,619 QSOs (31.7%) on LoTW. A very quiet month with only 5 LoTW QSLs received

DXCC Account Status: Nothing new this month. *Awards received: Mixed, CW, Phone, 20m, 17m, 15m and 10m. We are now 268 Mixed DXCC.*

WAS Account Status: Nothing new this month. *Mixed, 20m, CW, Phone, Digital, Triple Play, RTTY . Nothing new this month. We still need:*

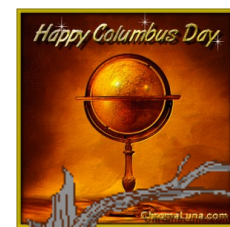
- AK, ID for 40m
- WV for 15m
- WY for 20m Phone
- NV for 20m CW.
- AK, ID, NV for 40m CW.

We have received the following QSOs from Field Day activities:

- 176 (+0) QSLs from 2012
- 184 (+0) QSOs from 2013
- 258 (+0) QSOs from 2014
- 283 (+0) QSOs from 2015
- 162 (+0) QSOs from 2016
- 233 (+2) QSOs from 2017

VUCC Account Status: New this month: EN44.

Update at the next Club Meeting.



BRARA Board Elections are coming

Pursuant to the By-laws, preparations have begun for the Election of a new Board of Directors. The Current Board authorized a Nominating Committee consisting of Members in good standing not running for election, which will be chaired by Art Lewis [WA8V5J]. The Board approved the following schedule and procedures:

1. **Prior to 12:00 Noon Wednesday 20-September-2017**, the Nominating Committee will accept names of members in good standing for the New Board. Names may be submitted to the Nominating Committee Chair.
2. **Prior to the October General Membership Meeting**, the Nominating Committee will meet to produce a seven-member recommended Slate of Candidates.
3. **At the October General Meeting:**
 - A. The President will call upon the Nominating Committee Chair to identify the recommended Slate of Candidates.
 - B. The President will ask for nominations and seconds to put these choices on the Ballot.
 - C. The President will then call for additional nominations of members in good standing from the floor, each of which will require a second. Both the Nominator and the Secunder must be members with voting rights and should not be the Nominee.
 - D. Once there are no further floor nominations, the President will declare nominations closed.
 - i. If there are no Floor Nominations, the President will ask the Nominating Committee Chair to make a motion that the Slate be accepted by acclamation. A second should be made by another Nominating Committee member. A simple aye/nay vote will then be taken and there will be no need for a November election.
 - ii. If there are Floor Nominations, a paper ballot containing the all Candidates (the recommended Slate and all Floor Nominations) will be prepared for the November Meeting/Election. No additional nominations will be taken after the October Meeting.
4. If there are more than seven Candidates, then **at the November General Meeting:**
 - A. One each paper ballot will be distributed to all BRARA members with voting rights.
 - B. Secret Ballots may be cast for up to seven candidates and collected by the Nominating Committee Chair.
 - C. The Nominating Committee will tally the votes and rank the candidates accordingly.
 - D. The Nominating Committee Chair will announce the clear winning Candidates (up to seven).
 - i. If there are not seven clear winning Candidates, the Nominating Committee Chair will announce a tie and immediately conduct runoff election(s) among the tied trailing Candidates until a list of the seven winning Candidates is established.
 - ii. When there are seven clear winning Candidates, the Nominating Committee Chair will announce the New Board to take Office at the January 2018 General Membership Meeting.
5. The New Board should select its Executive Committee (President, Vice President, Secretary, and Treasurer) **prior to the December General Membership Meeting** and in accordance with the above mentioned BRARA By-Laws. The New Board takes office with the January 2018 General Meeting.

Refreshing Ideas

Considering a beverage? No, we're not talking about a Pepsi or a cold 807.

The Beverage antenna is simply a straight wire, usually several hundred feet long and about 8 feet high. It is a VERY effective antenna that will enable you to hear extremely weak DX signals that are buried in noise or covered up by other interference. It was invented and patented many years ago by Dr. Harold H. Beverage, who worked for RCA.

http://www.w0btu.com/Beverage_antennas.html

Emergency Frequencies

Hurricane Watch Net

14.325.00 MHz,
7.268.00 MHz

SATERN

14.265 MHz,
7.262 MHz

□ **Puerto Rico:** 3.803, 3.808, 7.188 MHz. Radio amateurs in Puerto Rico also will cooperate with the HWN on 7.268 and 14.325 MHz.

□ **Cuba:** Daylight hours, 7.110 MHz (primary) and 7.120 MHz (secondary); Provincial Net — 7.045, 7.080 MHz, and on other lower frequencies as necessary. Nighttime, 3.740 MHz (primary) and 3.720 MHz (secondary) and on other lower frequencies as necessary.

□ **Dominican Republic:** 3.873 MHz (primary), 3.815 MHz (secondary), 7.182 MHz (primary), 7.255 MHz (secondary); 14.330 MHz (primary), 21.360 MHz (primary), 28.330 MHz (primary).

□ **Caribbean Emergency and Weather Net (CEWN):** 3.815 MHz and 7.162 MHz (when necessary).

□ *60 Meters may be in use by FEMA for Interoperable communications.*



IF YOU DON'T
VOTE
YOU LOSE
THE RIGHT TO
COMPLAIN

Monday Night Nets

KG4FUR

BRARA now runs three Monday Night Nets on the 145.290 MHz -0.600 [110.9] repeater:

- ⇒ New HAMS Net: 19:00-19:30.
- ⇒ BRARA Informational Net: 19:30-20:00. Out-of-Area Amateurs may check-in via EchoLink. Our Node is 826953.
- ⇒ South County NBEMS Net 20:00-20:30. Analog Voice and FLDigi/FLMsg mixed mode.

NBEMS KG4FUR

For more information and the latest Guide and Troubleshooting, go to www.qsl.net/k4wrc/PBC-BASIC-NBEMS.html or simply Google "Palm Beach NBEMS"

Scheduled Nets

Mon	20:00	S County
		145.290 -0.6 110.9
Tue	19:30	PBC NBEMS
		147.285 +0.6 103.5

Other Local HAM

Analog Repeater Nets

Daily	18:00	SEFL Traffic	146.61 MHz
Tue	19:00	Boynton CERT	443.1 MHz
Fri	09:00	SARNet:	
		PBC	443.975 MHz
		FTL	442.850 MHz

Scheduled DMR Nets

Day	EDST	Talk Group
Sun	2000	TG-2 (LO) FL Tech
Wed	2100	TG-03 (NA) NAtch
Sat	1200	TG-01 (WW)

Local DMR Repeaters

Location	Rx Freq	Color Code
Miami	444.9875	1 SEFL
Miami	442.2250	1 dmr-fl
N Dade	443.1250	10 ipse2
Dania Bch	442.4000	1 dmr.mar
Plantation	442.4250	1 dmr.mar
Ft Lauderdale	443.6250	1 SEFL
Boca Raton	442.0000	8
Delray Bch	443.3000	1 SEFL
Wellington	442.3000	7 dmr.fl
Lk Worth	443.2500	7 BMR
WPB	444.9125	1 SEFL
PBG	442.1000	10 dmr.fl
Stuart	440.7000	1 dmr.mar
PSL 1	440.0000	1 dmr.mar
PSL 2	440.750	10 nj.trbo
Naples	444.9850	1 DMR+
Marco Island	444.8125	1 DMR+

Social Media Committee

A committee was formed to update, simplify and modernize BRARA social media: W4BFL (Jerry), KO4XL (Bruce), NE4LS (Nelson), N1QFH (John C), N8IFQ (Steve).

Club Repeaters

144.390	APRS Repeater
145.070	Packet Repeater
145.290 -0.600	[PL 110.9] EC-826953
442.875 +5.000	[PL 110.9]

Location: 26.39724 -80.09485
145.290 & 442.875 linking planned

Club Ham Shack

West Delray Regional Park
10875 West Atlantic Avenue
Delray Beach, FL 33446

Board of Directors

Scheduled Meetings

The BRARA Board of Directors:

KE4OBV (Patrick), KG4FUR (Gerry), KO4XL (Bruce), W4AEQ (Jeff), W4BFL (Jerry), W4WCD (Walt), and WA8VJSJ (Art)

will hold scheduled monthly meetings at 11:00 at the shack on the Saturday preceding the next General Meeting. Additional impromptu meetings may be held at the Shack on Wednesday and Saturday mornings.

Donations &

Contributions

Contributions to BRARA—a 501(c)(3) organization—are tax deductible as charitable donations. As you complete your membership renewal or begin your year-end tax planning, please consider making a donation to BRARA.

Planned Giving—Please also consider BRARA when updating or initiating planned giving (including charitable gift annuities, bequests and gifts or retirement plan assets) and other assets.

Apparel Donations

\$10 donation—BRARA Name Plate with your Call Sign.
\$30 donation—BRARA Polo Shirt with your Call Sign.
\$40 donation—BRARA button down red cotton/poly shirt (short sleeve)

Membership Application & Renewal

- \$25 Full Membership
- \$10 Assoc Membership
- \$5/Family Mbr w/License

Name: _____

Call Sign: _____

Address: _____

Phone: _____

Email: _____

ARRL Member: Yes No

Birthday: Month: _____ Year: _____

License Grade: _____ Exp Date: _____

Interests: Field Day Ham Fest

HF Digital DXing

VHF Packet CW

UHF Voice Contesting

EmComm Skywarn Public Svc

DMR MARS CERT

Award Chasing Ragchewing

Building & Experimenting Satellite

Other: _____

Signature: _____

Return with dues to BRARA at either:

BRARA
P.O. Box 480162
Delray Beach, FL 33448-0162

Or

to a director at the Shack on Wednesday or Saturday morning radio days.

Amateur License Refresher

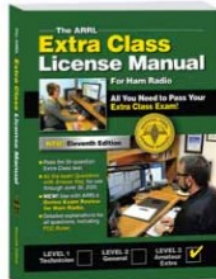
It's probably been awhile since you took your Amateur License exam. Here are a few sample questions just to keep those synapses firing.

Extra Pool

E6E01

Which of the following is true of a charge-coupled device (CCD)?

- A. Its phase shift changes rapidly with frequency
- B. It is a CMOS analog-to-digital converter
- C. It samples an analog signal and passes it in stages from the input to the output
- D. It is used in a battery charger circuit



E6E09

Which of the following component package types would be most suitable for use at frequencies above the HF range?

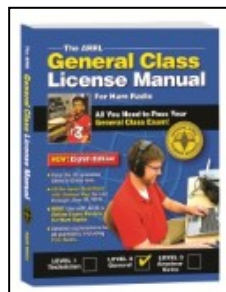
- A. TO-220
- B. Axial lead
- C. Radial lead
- D. Surface mount

General Pool

GOA08

Which of the following steps must an amateur operator take to ensure compliance with RF safety regulations when transmitter power exceeds levels specified in part 97.13?

- A. Post a copy of FCC Part 97 in the station
- B. Post a copy of OET Bulletin 65 in the station
- C. Perform a routine RF exposure evaluation
- D. All of these choices are correct



GOA10

What is one thing that can be done if evaluation shows that a neighbor might receive more than the allowable limit of RF exposure from the main lobe of a directional antenna?

- A. Change from horizontal polarization to vertical polarization
- B. Change from horizontal polarization to circular polarization
- C. Use an antenna with a higher front-to-back ratio
- D. Take precautions to ensure that the antenna cannot be pointed in their direction

Answers to License Refresher:

- E6E01 (C)
- E6E09 (D)
- GOA08 (C)
- GOA10 (D)

Newsletter Guidelines *kg4fur*

Thanks for all who submitted articles and I hope you continue to do so. We're also looking for new writers as well. Here are some guidelines for article submissions.

- Text should be in MS Word or equivalent, saved as a .DOC file. ASCII text written in an email works too.
- Write your best stuff, but don't sweat the grammar. That's why there's an editor.
- Please submit pictures/illustrations as separate files, don't embed them in the text.
- Be sure to submit clear, in-focus photos

Got an idea for an article? Or constructive critique? Want to share club news and events? How about writing a short 30-minute project idea? Your submissions to the Red Flyer are needed to help keep this one of the best club newsletters in South Florida.

Please send articles to
KG4FUR@BRARA.org



New Hams Corner *WA2NSW*

Wire/cable selection and use

Too many new hams have no electrical background and no one to turn to with questions. One problem that can be avoided is easy if you understand a basic principal...bigger is better! In most cases the larger the wire or cable the more current or RF power it will handle.

Let's start with DC cables. Most come with a red and black wire. The red is plus and black minus. When hooking up to a power supply with terminals match the colors and you are good. When connecting in a vehicle the center pin is positive and the shell is negative (-). This is pretty much standard in the US. If you go abroad anywhere could be different colors And might be the opposite polarity. This is where it is nice to have a small VOM to measure The voltage before connecting anything!

I hope that most people realize that AC voltages can kill you. Before you open up your Power supply or other equipment that plugs into a wall outlet make sure you pull the plug and disconnect from other equipment. Remember that capacitors will hold a charge long after unplugged so if it is a large one you might be wise to short it before working. PLEASE if you don't know what you are doing, work with someone who does! AC cords tend to be big enough for the rating of anything that they are attached to. Check the tag to see what current rating you have and make sure the cable is large enough.

Most are 14 or 12 gauge so there is plenty of capacity.

Now the tricky stuff, RF cables. There are quite a few common cables that hams will use. RG-8, RG-58, RG-8X, RG-213 and RG-214. Use one of the charts to determine how much loss per hundred feet of cable. Then you can make your selection. Most magnetic mounts come with RG-58 cable and the length is usually under 20 feet. The loss is not going to really hurt you for that short a run. Now when you are looking at running cable from a basement to rooftop you might have 150' so you need to account for lost signal.

A quick way to see if you are losing too much is to add the losses and gains to see where you will end up with respect to RF power. Transmitter output is 20 watts @ 145 MHz you have a Hundred feet cable of RG8X (loss 4.5 db/100). Your antenna is very good and you have a gain of 4.5 dB @ 145 MHz In theory you will have about 20 watts Effective Radiated Power or ERP. This would be a unity gain system...not bad, not great. By playing with cable alone you can increase this number but the cost and cable size might not make it worth it to you. If you are running up a tower you also want shielding from other radios using the tower. So that could be a defining factor. As always, lots of variables and many choices!



Ham Humor

Ham Radio Netflix Series In the Works

By K5KAC, on the scene

LOS GATOS, CA — Netflix has greenlit an uplifting series about the life of a three legged dog who successfully runs his own booth at hamfests. "The pilot episode was a touching tale about this dog overcoming his limited physical capabilities to become a reputable dealer of 256 MB RAM," said Andre Trespiernos, director of niche programming for Netflix. "By the end of the episode, we were all in tears."

Based on true events, the series details the dog's struggles with finding replacement parts for an IBM Thinkpad 360C, battling the military surplus radio vendor for booth space, and facing his fear of suspended men (a dog's eye view into species politics.)

"Those watching will be hit with a nostalgia for obsolete electronics and a new respect for small business owners who also happen to be canine and missing a fourth leg," notes Trespiernos, who is also juggling the production of a harrowing documentary highlighting the plight of grandchildren lost at hamfests.

The project is slated to hit the streaming network next Spring in order to coincide with the beginning of peak hamfest season.



Will Keep Trying To Join 7.200 Conversations, Man Says

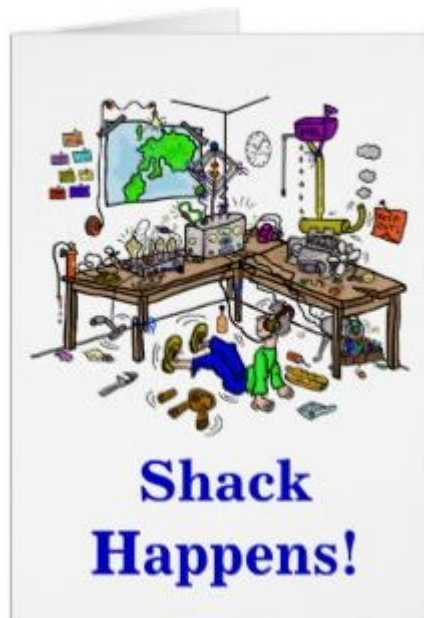
By K5KVN, on the scene

SPEAKHAVEN, GA - A local ham radio operator, frustrated with his inability to break through the QRM on 7.200, says he won't give up trying to "have his say in the matter."

Nathan Brinn, who holds a General class license, says he's been trying for weeks to join the cacophony of malicious interference on the frequency.

"I want to have my opinion heard, too, but I can't find a millisecond of free space to transmit," he says. "But, I don't want to talk over someone accidentally or block someone from being heard with my long CW keydown. I'm not that kind of guy."

Brinn says he goes to the frequency every day after work and several times on weekend afternoons after returning home from volunteering at the local homeless shelter. "I hope the operators on frequency will start to leave some space for others to join in. Until then, I'll keep trying."



Project Page From the Educational Outreach ASM

Anthony Luscre, K8ZT
k8zt@arrl.net

Modified Portable MFJ-1835 Cobweb Antenna

The MFJ-1835 Cobweb Antenna is an inexpensive way to easily get on 20, 17, 15, 12 and 10 Meters. Its lightweight and being non-directional make it easy to mount using simple masts for portable operations. Unfortunately as shipped the antenna is not very portable, even disassembled, as the shipping box is over 6 1/2 feet long. Once assembled the distance across two elements is almost 14 feet and it not easy to partially disassemble to transport.

My goal was to make it a portable antenna, but without changing the supplied fiberglass poles if I wanted to later do a permanent installation. One of the best things about this conversion project is the low cost (<\$20) and readily availability of all the parts.

Materials needed

- 1/2 in. x 10 ft. PVC Schedule 40 Conduit (Lowes 5 each at \$1.90 = \$9.50)
- #6-32 x 1-1/4-in Round-Head Machine Screws and Matching Nuts (10-Count \$1.25 or \$2.05 for stainless)
- #10 x 0.5-in Zinc-Plated Self-Drilling Interior/Exterior Sheet Metal Screws with hex heads (Ace Hardware- 50-Count \$5.25 you will only need 20)
- #10 x 1/2-in Stainless Steel Flat Washer (Ace Hardware- 36-Count \$2.00, you will only need 20)

Tools needed

- Small Tubing Cutter- to cut PVC conduit
- Sandpaper to slightly reduce size of end and remove sharp edge and burrs from cut conduit
- Drill and bits

Contest and Special Event Operating News and Information

Data below as well as more information courtesy of the following website:
<http://www.hornucopia.com/contestcal/index.html>.

Contest and Special Event	Date Time Group
+ UK/EI DX Contest, SSB	1200Z, Sep 30 to 1200Z, Oct 1
+ Russian WW MultiMode Contest	1200Z, Sep 30 to 1159Z, Oct 1
+ North American SSB Sprint Contest	0000Z-0400Z, Oct 1
+ UBA ON Contest, SSB	0600Z-0900Z, Oct 1
+ Classic Exchange, Phone	1300Z, Oct 1 to 0800Z, Oct 2 and 1300Z, Oct 3 to 0800Z, Oct 4
+ Peanut Power QRP Sprint	2000Z-2200Z, Oct 1
+ IQRP Quarterly Marathon	0800Z, Oct 2 to 2000Z, Oct 8
+ ARS Spartan Sprint	0100Z-0300Z, Oct 3
+ German Telegraphy Contest	0700Z-1000Z, Oct 3
+ Phone Fray	0230Z-0300Z, Oct 4
+ CWops Mini-CWT Test	1300Z-1400Z, Oct 4 and 1900Z-2000Z, Oct 4 and 0300Z-0400Z, Oct 5
+ 432 MHz Fall Sprint	1900 local - 2300 local, Oct 4
+ UKEICC 80m Contest	2000Z-2100Z, Oct 4
+ NRAU 10m Activity Contest	1700Z-1800Z, Oct 5 (CW) and 1800Z-1900Z, Oct 5 (SSB) and 1900Z-2000Z, Oct 5 (FM) and 2000Z-2100Z, Oct 5 (Dig)
+ SARL 80m QSO Party	1700Z-2000Z, Oct 5
+ NCCC RTTY Sprint	0145Z-0215Z, Oct 6
+ NCCC Sprint	0230Z-0300Z, Oct 6
+ YLRL DX/NA YL Anniversary Contest	1400Z, Oct 6 to 0200Z, Oct 8
+ ARRL EME Contest	0000Z, Oct 7 to 2359Z, Oct 8
+ GTC CW Cup	0600Z-1200Z, Oct 7 and 1200Z-1800Z, Oct 8
+ Microwave Fall Sprint	0800 local - 1400 local, Oct 7
+ Oceania DX Contest, Phone	0800Z, Oct 7 to 0800Z, Oct 8
+ SKCC Weekend Sprintathon	1200Z, Oct 7 to 2400Z, Oct 8
+ Russian WW Digital Contest	1200Z, Oct 7 to 1159Z, Oct 8
+ TRC DX Contest	1200Z, Oct 7 to 1200Z, Oct 8
+ International HELL-Contest	1600Z-1800Z, Oct 7 (80m) and 0900Z-1100Z, Oct 8 (40m)
+ California QSO Party	1600Z, Oct 7 to 2200Z, Oct 8
+ FISTS Fall Slow Speed Sprint	1700Z-2100Z, Oct 7
+ WAB HF Phone	1900Z, Oct 7 to 1900Z, Oct 8
+ RSGB DX Contest	0500Z-2300Z, Oct 8
+ UBA ON Contest, CW	0530Z-0800Z, Oct 8
+ UBA ON Contest, 6m	0800Z-1000Z, Oct 8
+ 4 States QRP Group Second Sunday Sprint	0000Z-0200Z, Oct 9
+ RSGB 80m Autumn Series, CW	1900Z-2030Z, Oct 9
+ 10-10 Int. 10-10 Day Sprint	0001Z-2359Z, Oct 10
+ NAQCC CW Sprint	0030Z-0230Z, Oct 11

- Nut driver for the ¼ and ⅜ inch nuts
- Tape measure
- Marking — “sharpie” type marker and medium nail
- Vaseline or light grease

Steps

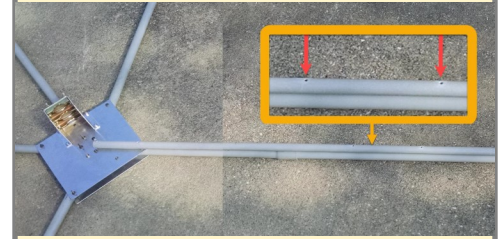
1. Measure and Cut Conduit 30” section with flared end x 5
2. Measure and Cut Conduit 47” section x 4
3. Measure and Cut Conduit 17” section x 1
4. Use sandpaper to remove any sharp edges or burrs of cut conduit ends
5. Using one of the MFJ fiberglass masts as a template drill two aluminum plate mounting holes through flared sections of conduit (on the opposite end from flare) x 4
6. Repeat with matching mount conduit.
7. Insert 1 ¼ “ Machine Screws through conduit sections to attach to aluminum plates as described in MFJ instructions (do not put nuts on yet) x 4



8. Prepare the four sections of straight conduit by sanding first 2” inches to slightly decrease diameter and apply small amount of Vaseline to easily insert into flared ends (make sure all four are inserted approximately the same depth).
9. After inserting mark each conduit and flare with a letter (A, B, C, D) to facilitate later reassembly.
10. Repeat with the short section used for mounting matching box.
11. Temporarily place one of the MFJ fiberglass poles on the two protruding screws from step above

Contest and Special Event	Date Time Group
+ Phone Fray	0230Z-0300Z, Oct 11
+ CWops Mini-CWT Test	1300Z-1400Z, Oct 11 and 1900Z-2000Z, Oct 11 and 0300Z-0400Z, Oct 12
+ NCCC RTTY Sprint	0145Z-0215Z, Oct 13
+ NCCC Sprint	0230Z-0300Z, Oct 13
+ Makrothen RTTY Contest	0000Z-0759Z, Oct 14 and 1600Z-2359Z, Oct 14 and 0800Z-1559Z, Oct 15
+ Oceania DX Contest, CW	0800Z, Oct 14 to 0800Z, Oct 15
+ Scandinavian Activity Contest, SSB	1200Z, Oct 14 to 1200Z, Oct 15
+ Arizona QSO Party	1600Z, Oct 14 to 0600Z, Oct 15 and 1400Z-2359Z, Oct 15
+ Pennsylvania QSO Party	1600Z, Oct 14 to 0500Z, Oct 15 and 1300Z-2200Z, Oct 15
+ FISTS Fall Unlimited Sprint	1700Z-2100Z, Oct 14
+ PODXS 070 Club 160m Great Pumpkin Sprint	2000Z, Oct 14 to 2000Z, Oct 15
+ Asia-Pacific Fall Sprint, CW	0000Z-0200Z, Oct 15
+ UBA ON Contest, 2m	0700Z-1000Z, Oct 15
+ Run for the Bacon QRP Contest	0100Z-0300Z, Oct 16
+ ARRL School Club Roundup	1300Z, Oct 16 to 2359Z, Oct 20
+ Telephone Pioneers QSO Party	1900Z, Oct 16 to 0300Z, Oct 17
+ Phone Fray	0230Z-0300Z, Oct 18
+ CWops Mini-CWT Test	1300Z-1400Z, Oct 18 and 1900Z-2000Z, Oct 18 and 0300Z-0400Z, Oct 19
+ RSGB 80m Autumn Series, Data	1900Z-2030Z, Oct 18
+ NCCC RTTY Sprint	0145Z-0215Z, Oct 20
+ NCCC Sprint	0230Z-0300Z, Oct 20
+ MCG Autumn Sprint	1600Z-2000Z, Oct 20
+ Araucaria World Wide VHF Contest	0000Z, Oct 21 to 1600Z, Oct 22
+ JARTS WW RTTY Contest	0000Z, Oct 21 to 2400Z, Oct 22
+ 10-10 Int. Fall Contest, CW	0001Z, Oct 21 to 2359Z, Oct 22
+ RCB XYL Test	0700Z-2159Z, Oct 21
+ New York QSO Party	1400Z, Oct 21 to 0200Z, Oct 22
+ Stew Perry Topband Challenge	1500Z, Oct 21 to 1500Z, Oct 22
+ Worked All Germany Contest	1500Z, Oct 21 to 1459Z, Oct 22
+ South Dakota QSO Party	1800Z, Oct 21 to 1800Z, Oct 22
+ Feld Hell Sprint	2000Z-2359Z, Oct 21
+ Illinois QSO Party	1700Z, Oct 22 to 0100Z, Oct 23
+ RSGB RoLo CW	1900Z-2030Z, Oct 22
+ SKCC Sprint	0000Z-0200Z, Oct 25
+ Phone Fray	0230Z-0300Z, Oct 25
+ CWops Mini-CWT Test	1300Z-1400Z, Oct 25 and 1900Z-2000Z, Oct 25 and 0300Z-0400Z, Oct 26
+ UKEICC 80m Contest	2000Z-2100Z, Oct 25
+ RSGB 80m Autumn Series, SSB	1900Z-2030Z, Oct 26

and align over the newly inserted conduit. Insert the nail through existing holes on fiberglass pole and gently tap to mark conduit



12. Set MFJ fiberglass poles aside for safe storage.

13. Put nuts and washers on protruding screws from aluminum mounting plate step above and tighten.

14. Use drill with nut driver head to start one metal screw and washer at each of the marked spots on conduit, do not tighten.



15. Mark holes for matching box on short conduit section, drill hole and mount per MFJ instructions.

16. Mount all wires on machine screws under washers and tune per MFJ instructions.

17. Gently tighten all the machine screws

18. When ready to transport, remove conduit ends from flared end (start with conduit with matching box).

19. Once all sections have been pulled out, carefully bring them together being careful to not kink/tangle wires. Insert into a box or carry bag.

20. On the hub assembly remove outer mounting screw from the two conduit sections furthest from matching box conduit. Loosen inner screws on the same two bolts. Gently rotate two sections along the remaining two to reduce size of hub assembly for transporting.

Continued on Page 9

Contest and Special Event	Date Time Group
+ NCCC RTTY Sprint	0145Z-0215Z, Oct 27
+ NCCC Sprint	0230Z-0300Z, Oct 27
+ CQ Worldwide DX Contest, SSB	0000Z, Oct 28 to 2400Z, Oct 29

DX Operating News and Information

Credit for the below information and further information can be found at the following website: <http://www.ng3k.com>

Start	End	DXCC	Call	QSL via	Reported by	Information
2017 Sep27	2017 Oct02	Micronesia	V63FKR	JR1FKR	DXW.Net	By JR1FKR fm Pohnpei (IOTA OC-010); HF
2017 Sep28	2017 Oct30	Burkina Faso	XT2AW	M0OXO	OPDX	By DF2WO; 40-10m; CW SSB + digital; hex beam, dipole
2017 Sep30	2017 Oct20	Temotu	H40GC	LotW	LZ1GC	By LZ1GC; 160-10m; CW SSB RTTY PSK; QSL also OK via LZ1GC or Club Log
2017 Oct02	2017 Oct10	Christmas I	VK9XI	M0OXO	DXW.Net	By VK3FY VK3GK VK3TZ; 160-10m, focus on low bands; SSB CW RTTY; 2 stations; QRV for Oceania SSB Contest
2017 Oct02	2017 Oct19	Christmas I	VK9XGJ	W7GJ	W7GJ	By W7GJ; 6m; mainly EME, some SSB CW; exact dates uncertain
2017 Oct10	2017 Oct17	Cocos Keeling I	VK9CI	M0OXO	DXW.Net	By VK3FY VK3GK VK3TZ; 160-10m, focus on low bands; SSB CW RTTY; 2 stations; QRV for Oceania CW Contest
2017 Oct11	2017 Oct17	Palau	T8	LotW	DXNews	By JH7IPR as T88UR and JQ6FQI as T88WM fm Koror I (IOTA OC-009); 160-6m; CW SSB RTTY; QSL also OK via JH7IPR and JQ6FQI
2017 Oct12	2017 Oct19	Bhutan	A52SJ	LotW	N6SJ	By N6SJ; 160m; CW; 500w; Inverted L, Beveridge; focus on NA west coast; QSL also OK via Club Log and TBD
2017 Oct12	2017 Oct21	Sao Tome & Principe	S9CQ	LotW	DXW.Net	By EA5IDQ; 80-6m; SSB RTTY; 500w; Hexbeam + dipoles; QSL also OK via EA5IDQ
2017 Oct15	2017 Oct18	Bangladesh	S2	G3KHZ	DXW.Net	By G3KHZ SM6CVX DL6KVA G4EDG S21ED S21TV as TBA fm Bhola I (IOTA AS-140); 40-15m; CW SSB; vertical dipoles; dates approximate
2017 Oct15	2017 Nov07	St Kitts & Nevis	V47JA	LotW	W5JON	By W5JON fm Calypso Bay, St Kitts; 160-6m, incl 60m; SSB; yagi on 6m, verticals, dipole; QRV for CQWW DX SSB; QSL also OK via W5JON direct
2017 Oct17	2017 Oct26	St Barthelemy	FJ	See Info	TDDX	By AI5P as FJ/AI5P and N0KV W0ZA WD0E as FJ/N0KV fm IOTA NA-146; 80-10m; SSB CW RTTY; 500w; StepIR vertical and Hexbeam; QSL FJ/N0KV via LotW and N0KV, FJ/AI5P via AI5P
2017 Oct20	2017 Nov05	Botswana	A25A	NJ0F	NJ0F	By NJ0F; QRV for CQWW DX SSB
2017 Oct21	2017 Oct25	Bangladesh	S2	SM6CVX	DXW.Net	By G3KHZ SM6CVX DL6KVA G4EDG S21ED S21TV as TBA fm St Martin's I (IOTA AS-127); 40-15m; CW SSB; vertical dipoles; dates approximate
2017 Oct23	2017 Nov06	Cocos Keeling	VK9CZ	N3SL	GM3WOJ	By GM3WOJ GM4YXI; 160-10m; SSB CW; call sign tentative; QRV for CQWW DX SSB

Start	End	DXCC	Call	QSL via	Reported by	Information
2017 Oct26	2017 Oct26	Bhutan	A52SJ	LotW	N6SJ	By N6SJ; 160m; CW; 500w; Inverted L, Beveridge; focus on NA west coast; QSL also OK via Club Log and TBD
CQ WW DX Contest, SSB (Oct 28-29, 2017)						
2017 Oct31	2017 Nov04	Liberia	5L3BI	M00XO	DXW.Net	By EL2BG EL2DT EI5GM EI9FBB MM0NDX fm Baiyah I (AF-111); CW SSB; verticals; dates tentative; first ever activation of AF-111;

60th Annual Jamboree on the Air (JOTA)

October 20 – 22, 2017

Tanah Keeta Scout Reservation
Tequesta, Florida

Event opens at 4pm October 20, 2017



Jamboree on the Air, or JOTA, is an annual Scouting event that uses Amateur Radio to link Scouts around the world, around the nation and in our own community. Scouts of any age or gender can participate including Cub Scouts, Boy Scouts, Girl Scouts and Venturers.

In addition to a great TK weekend and the chance to talk to other Scouts and Scouters by ham radio, Scouts will have the opportunity to earn a STEM-related Merit Badge like:



Citizenship in the World



Communication



Digital Technology



Electricity



Electronics



Engineering



Radio



Signs, Signals and Codes



Space Exploration

New this year: Training for adult Scouters! We are offering Troop Committee Challenge, Merit Badge Counselor and Scoutmaster Specifics.

Interested in becoming an Amateur Radio operator? There will be question and answer sessions during the weekend, and Sunday morning we will offer the license test *free of charge* to all who are interested. Please contact Bruce in advance for advice on studying for the test.

Many other fun and exciting events are planned:

- Radio “fox hunt” – find the hidden radio transmitter and win the hunt. (Everyone had a blast with this last year. We will be repeating our *Midnight Fox Hunt!*)
- Technology exhibits and demonstrations
- *And much more...*

Sign up for JOTA at the Gulf Stream Council website - <http://www.gulfstreamcouncil.org>

The JOTA registration fee includes a full weekend of camping and activities, all Saturday meals and a limited edition JOTA patch. Registration by unit (rather than family) is strongly advised. Please be sure to register at least one adult from your unit to accompany your scouts!

For additional information, please contact Bruce Ratoff at (561) 862-8198 or brr817-jota@yahoo.com.



21. The last two pictures show both the hub and elements packed for transport. If necessary you can remove aluminum plates and fit everything in an even smaller package.

22. To reassemble reverse step 19. Lay out 5 conduits with wires and matching box. Place the hub assembly in middle and reinsert all conduit ends making sure not to tangle wires. Insert matching section last

BRARA FALL RADIATOR GRILL



10:00am – 1:00pm Saturday

21 Oct 2017



At the Ham Shack in West Delray Park

10875 W Atlantic Ave, Delray Beach, FL 33446



EVERYONE IS WELCOME: HAMS, Family, Friends, Perspective HAMS

Youth Hours: 09:00am-11:00am

Talk-In Repeaters: Analog 145.290 MHz (PL 110.9) or DMR 443.300 TS2 TG2

Enjoy with us:

- Ham Radio and Comradery
- Hamburgers and Hot Dogs; Chips and Soft Drinks

Contacts:

- Gerry Gawaldo 561-706-8338 KG4FUR@yahoo.com or
- Art Lewis 330-518-6868 WA8VSJ@gmail.com

BRARA GEN CLASS TRAINING



9:00am – 5:00pm Sat/Sun

4/5 Nov 2017



At the Ham Shack in West Delray Park

10875 W Atlantic Ave, Delray Beach, FL 33446



FREE LAUREL HAM LICENSE TESTING

7:00pm – 9:00pm Thu

9 Nov 2017

James A Rutherford Comm Ctr, Patch Reef Pk

2000 Yamato Rd, Boca Raton, FL 33431

Requirements:

- Enthusiasm for the Hobby and Willingness to Learn & Study
- Note Pad and Two No.2 Pencils with Erasers
- For Testing: Current License (if you have one), Picture ID, SSN or FRN

Talk-In Repeaters: Analog 145.290 MHz (PL 110.9) or DMR 443.300 TS2 TG2

Contacts:

- Bruce Ratoff 561-862-8198 Training@BRARA.org
- Jerry Zaza 305-706-8338 Testing@BRARA.org

Florida State Convention (52nd Annual Melbourne Hamfest)

Start Date: 10/13/2017
End Date: 10/14/2017
Location: Melbourne Auditorium
 625 East Hibiscus Blvd.
 Melbourne, FL 32901
Website: <http://www.pcars.org>
Sponsor: Platinum Coast Amateur Radio Society
Type: ARRL Convention
Talk-In: 146.85
Public Contact: Dan Fisher , AI4GK
 PO Box 100081 Palm Bay, FL 32910
 Phone: 321-723-7582
Email: ai4gk@cfl.rr.com

Fall 2017 Cy Harris Free Flea

Start Date: 10/28/2017
End Date: 10/28/2017
Location: Collins Center
 3900 3rd Avenue
 Oakland Park, FL
Website: <http://browardarc.net/free-flea/>
Sponsor: Broward ARC (W4AB)
Type: ARRL Hamfest
Talk-In: 146.91 (PL 110.9)
Public Contact: Tony Becker , KK4GUU
 3721 West State Road 84, Unit 102 Davie,
 FL 33312
 Phone: 954-612-9303
Email: kk4guu@arrl.net Phone: 772-905-3552
Email: johnsails@hotmail.com

Free Laurel VEC Testing



Tue 10-Oct-2017, 18:00-19:30,
 Broward Gen MC, 1600 S Andrews
 Ave, Ft Lauderdale [BARC] (2nd Tue
 of every month).

Sun 5-Nov-2017, 11:00-13:00, Fire
 Station 28, 1040 RPB Blvd, Royal
 Palm Beach [PWARC] (1st Sunday of
 odd months).

Thu 9-Nov-2017, 19:00-21:00,
 Rutherford Com Ctr, 2000 Yamato
 Rd, Boca Raton, FL 33498 [BRARA]
 (Quarterly: Feb, May, Aug, Nov)

A message from W2GGI:

I hope that each and every one of you were not too adversely affected by the recent Hurricanes.

Unfortunately, Hurricane Irma's high winds in South Florida took their toll on the Delray Beach DMR repeater antenna, which now lists at a 40 degree angle. This, coupled with other DMR repairs and replacements, have placed a strain on financial resources needed to both secure replacement parts/equipment and make the necessary repairs. The linked Fort Lauderdale must take a back seat for now.

Any donations, no matter how small, for the cost of repairs will be greatly appreciated. Donations from BRARA & others, although appreciated and needed, do not completely cover all the costs. If you want to make a small donation to the W2GGI network, please use PayPal & send to w2ggi@bellsouth.net. You can also mail your donations to Robert Di Mezza W2GGI, 5208 Lake Blvd., Delray Beach, FL 33484. TU, 73.

BRARA Ham Shack

Key Rules ^{K4Lew}

To obtain a key for our ham shack you must be a member in good standing for a minimum of a continuous year and hold a general class license or above and go through a short training session with K4LEW (Lew), W4BFL (Jerry), W4WCD (Walt) or N4CGC (Max).

Welcome New Members:

No new members on file

For more on BRARA:

Website: www.brara.org
Twitter: [BRARA@N4BRF](https://twitter.com/BRARA@N4BRF)
Instagram: [#BRARA_N4BRF](https://www.instagram.com/BRARA_N4BRF)
Facebook:
[facebook.com/BRARA-138743906714224](https://www.facebook.com/BRARA-138743906714224)

Please be advised that the above are the official BRARA social media sites. No other social media sites are recognized by BRARA.

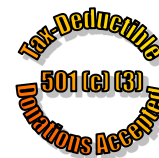
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the Radio Flyer's Purpose

The purpose of this newsletter is to keep club members and other interested hams updated on club events and ham activities in the Greater Boca Raton Area. We hope you enjoy this month's *the RF* as much as we did publishing it!



the Radio Flyer
 P.O. Box 480162



BRARA Club Member Name
 Call Sign
 Street Address
 City, State Zip Code

