

# BROWARD COUNTY FLORIDA



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**Please come to our meeting and meet our new Broward County ARES/RACES Training Officer.**

**This month's topic will be**

**"If you are first on the air in a disaster, guess what, YOU are net control! And what to do" Presented by Barry Porter / KB1PA**

Please plan on attending this meeting. Starts at 7:30 PM. Map and contact information on the last page.

APRIL 2015

# BROWARD COUNTY ARES /RACES EMERGENCY COMMUNICATION



## NOTICE TO ALL HAMS IN BROWARD COUNTY

Here in Broward County, every year starting in April, we are in need of hams stepping up to the plate to volunteer to go to the Primary Shelters, Special Need Facilities and hospitals in the North Broward District to check on those antennas to see if the connectors need to be replaced and check what the SWR measurement are so I can decide whether the antenna is with-in acceptable range or needs to be replaced.

After checking out these antennas, send me your findings so I can arrange for another antenna to be purchased and installed.

Please clique on the link below to see which shelter or shelters that you would volunteer to check.

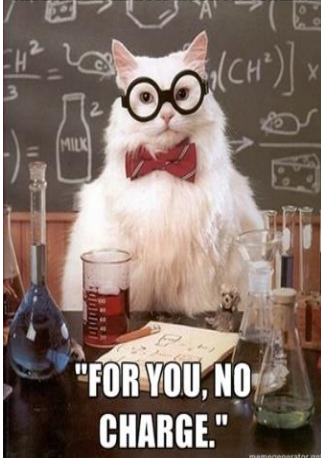
<http://www.broward.org/Hurricane/Pages/HurricaneEvacuationMap.aspx>

In addition to the 14 shelters, we have 5 hospital facilities that also need to be checked. They are, Coral Springs Medical Center, North Broward Medical Center, Imperial Point Hospital, Broward Health and the Broward Health Cooperate Offices behind Broward Health. There are also an additional 4 special need facilities.

To check these antennas, all you will need is and HT, an SWR bridge and 10 feet of coax with PL-259 connectors on each end, it and the proper adapter for your HT. If you have a solder gun, solder and a couple of spare PL-259 connectors lying around, this would help speed the process making these antennas operational. The connectors will need to have reducers, as the coax is RG8X. In the last 25 years I have only had to replace 1.

I personally cannot do this due to health reasons. If you are interested in helping out with this, please email me at [n4hhp@comcast.net](mailto:n4hhp@comcast.net) or call me ASAP for further instructions. Note that this can only be done during normal school hours 8:00 AM till 4:00 PM.

AN NEUTRON WALKS INTO A BAR, AND ASKS THE BARTENDER HOW MUCH FOR A DRINK



RECIPES BY RADIO  
Husband—Hm! Funny pudding this!  
Wife—Yes, dear! That's as far as I got with the recipe when the wireless broke down.—*Evv.*

### RADIOS

RECEIPTS BY RADIO  
R. M. sends us the story of a young bride who asked her husband to copy off a radio recipe she wanted. He did his best but got two stations at once, one of which was broadcasting the morning exercises and the other the recipe. This is what he took down:  
"Hands on hips, place one cup of flour on the shoulders, raise knees and depress toes and mix thoroughly in one-half cup of milk. Repeat six times. Inhale quickly one-half teaspoonful of baking powder, lower the legs and mash two hard-boiled eggs in a sieve. Exhale, breathe naturally, and sift into a bowl.  
"Attention! Lie flat on the floor and roll the white of an egg backward and forward until it comes to a boil. In ten minutes remove from the fire and rub smartly with a rough towel. Breathe naturally, dress in warm flannels, and serve with fish soup."—*Boston Transcript.*



## **ARES® TRAINING**

By Berry / KB1PA Broward County Training Officer.

### **The goals of Broward County ARES Are:**

The Broward County Amateur Radio Emergency Service (ARES) consists of licensed amateurs who have voluntarily registered their qualifications and equipment for communications duty in the public service when disaster strikes. Every licensed amateur, regardless of membership in the ARRL or any other local or national organization, is eligible for membership in the ARES. The only qualification, other than possession of an Amateur Radio license, is a sincere desire to serve.

Because ARES is an amateur service, only amateurs are eligible for membership. The possession of emergency-powered equipment is desirable, but is not a requirement for membership.

In Broward County, all ARES members are automatically members of RACES.

- ARES & RACES working together provides greater flexibility and utility when serving the various emergency agencies and services within the community.
- Broward County ARES/RACES is in partnership with the Palm Beach County ARES emergency and communications training. The training will correspond with both Counties. To establish close cooperative relationships with relevant communication organizations and our partner agencies in Broward and Palm Beach Counties.
- To be recognized as the primary coordinating agency for amateur radio operators in Broward County in the event of a communications emergency either being man-made or a natural disaster.
- To provide competent radio communications support for the Broward County Emergency Management Division, American Red Cross shelters, special care facilities, hospitals or any other areas where secondary communications are needed in Broward County as assigned by the Broward County Emergency Operations Center.
- To be recognized by emergency service agencies and the amateur radio community as a model of competence and professionalism in network operations.
- To foster training and the development of skills and capabilities that will keep ARES/RACES members abreast of new technologies to help support the communication needs of our partner agencies.
- To use the resources of the ARES/RACES team, and our involvement in community activities, to foster awareness of the need for preparedness in the community at large.
- To be the recognized resource agency for community organizations needing communications support for events and activities of general benefit to the community.

**Please plan on checking into our BCEPN Nets and attending our monthly meetings  
You will find this information in the rear of this Newsletter under  
Broward County Amateur Radio Clubs and Nets**

# **Broward County ARES and RACES Invites You** **To Our Monthly Meeting!**

**USE YOUR RADIO LICENSE AND MAKE A DIFFERENCE  
IN YOUR COMMUNITY**

- No Dues or membership fees
- Learn about different modes of communications
- Fellowship with others
- Learn from one another
- Learn Direction Finding Skills
- Learn about Skywarn
- Participate in drills, public service events, Field Day and much more
- Learn Emergency Communication Skills

## **What Do We Do?**

We provide back-up communications for shared agencies in our communities. These served agencies include but are not limited to the Broward County Emergency Management Division, Red Cross, National Weather Service, hospitals, cities and municipalities. We supply communications during drills, exercises and public service events such as the American Diabetes Association fund raiser bike ride and the Annual Fort Lauderdale Winterfest Boat Parade just to name a few.

## **Broward County ARES® /RACES**

*3<sup>rd</sup> Tuesday of the month, at 7:30 P.M. Meeting in the Oak Room.*

**Broward Health (The old Broward General Medical Center)**

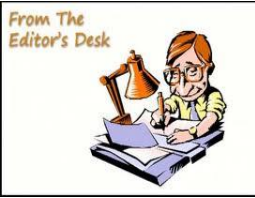
**1600 South Andrews Avenue, Fort Lauderdale, FL 33316**

**Meeting is held In the Oak Room**

**(See the map and contact information on the last page of this Newsletter)**



**“COMMUNICATIONS IS WHAT WE DO BEST”**



In the March ARES/RACES/SKYWARN issue, a minor correction needs to be made to the lightning safety info: the National Weather Service no longer advocate for the 30/30 rule. The new lightning safety tip is, "When Thunder Roars, Go Indoors". We no longer advise people use the first 30 since any lightning close enough to be heard is close enough to strike your location. We still use the second 30 which means that people should wait 30 minutes after the last thunder is heard before it's safe to go back outside.

## Lightning Can Be Deadly



*If you can hear thunder, you are close enough to the storm to be hit by lightning.*

Article taken from the American Red Cross by Richard Reed, Senior Vice President, Disaster Cycle Services

# ‘When thunder roars, go indoors.’

The American Red Cross reminds everyone that lightning is one of the deadliest weather phenomena in this country.

Although lightning can occur at any time, summer is the season when most lightning occurs. And more than half of the deaths attributed to lightning happen during activities such as fishing, camping, boating, swimming, picnicking and sports like soccer and golf.

“If you can hear thunder, you are close enough to the storm to be hit by lightning,” said Richard Reed, senior vice president, Disaster Cycle Services for the Red Cross. “Many summer activities are outdoors and require extra time to get to a safe place. The best protection is to watch the weather and cancel outdoor activities when thunderstorms are a possibility”.

**THUNDERSTORM SAFETY STEPS** Every thunderstorm produces lightning, which kills more people every year than tornadoes or hurricanes. Follow these steps to stay safe:

- Listen to local news or NOAA Weather Radio for emergency updates. Watch for signs of a storm, like darkening skies, lightning flashes or increasing wind.
- Postpone outdoor activities if thunderstorms are likely to occur. Many people struck by lightning are not in the area where rain is occurring.
- If a severe thunderstorm warning is issued, take shelter in a substantial building or in a vehicle with the windows closed. Get out of mobile homes that can blow over in high winds.
- If you can hear thunder, you are close enough to be in danger from lightning. The National Weather Service recommends staying inside for at least 30 minutes after the last thunder clap.
- Avoid electrical equipment and telephones. Use battery-powered TVs and radios instead.
- Shutter windows and close outside doors securely. Keep away from windows.
- Do not take a bath, shower or use plumbing.

- If you are driving, try to safely exit the roadway and park. Stay in the vehicle and turn on the emergency flashers until the heavy rain ends. Avoid touching metal or other surfaces that conduct electricity in and outside the vehicle.
- If you are outside and cannot reach a safe building, avoid high ground; water; tall, isolated trees; and metal objects such as fences or bleachers. Picnic shelters, dugouts and sheds are not safe.
- If you are swimming, clear everyone from the water at the first sound of thunder or first sight of lightning. Have everyone move inside, if possible. The National Lightning Safety Institute recommends waiting 30 minutes after the last lightning sighting or sound of thunder before resuming activities.

If someone has been struck by lightning, get help by calling 9-1-1 or the local emergency number. Anyone hit by lightning requires professional medical care. Check the scene for safety and then check the person. If the person has stopped breathing, have someone call 9-1-1 and begin CPR. If the person is breathing normally, look for other possible injuries and care for them as necessary. People who have been struck by lightning do not retain an electrical charge and can be handled safely.

- Download the [American Red Cross First Aid App](#) for expert advice on how to treat emergencies.
- Download the [Tornado App](#) for weather alerts and to learn more about what to do before, during and after storms.
- Safety steps are also available on the Red Cross [website](#).

**ALWAYS**  
**“REMEMBER”**



[Skywarn Training](#)

<https://www.youtube.com/watch?v=84VFVZS04hM&list=PL63A9138A2047B1A4&index=2>

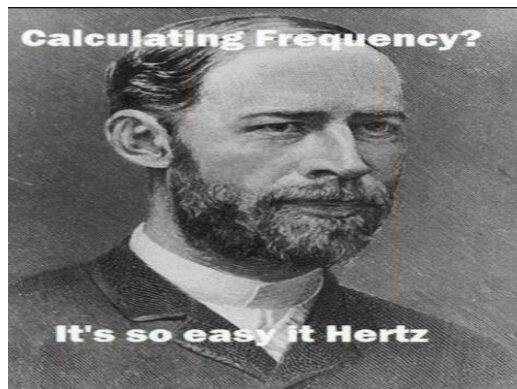
## **NOAA EXTREME WEATHER INFORMATION SHEETS (NEWIS)**

NOAA's National Coastal Data Development Center (NCDDC) produces the NOAA Extreme Weather Information Sheets (NEWIS). Published each year for the Atlantic hurricane season, the NOAA Extreme Weather Information Sheets provide critical information for contacting government officials and monitoring information resources. The laminated and waterproof NOAA Extreme Weather Information Sheets are an ideal reference in the home, automobile, or boat. NOAA Extreme Weather Information Sheets provide residents with a "one-stop" ready reference containing phone numbers and Web site information residents can use during potentially life-threatening weather emergencies.

<http://www.ncddc.noaa.gov/activities/weather-ready-nation/newis/>

# The March ARES/RACE Meeting

Great ARES/RACES meeting last night! Barry Porter gave a wonderful presentation on Successful Shadowing and an Introduction to EmComm. In addition, we had a visit from our new District Emergency Coordinator, Charles Benn.



# ARRL FIELD DAY IS COMING JUNE 27 & 28

Source from the ARRL

## What is Field Day?

- It is an annual HAM tradition entering its 82<sup>nd</sup> year.
- It is not a contest, but it IS an **operating** event sponsored by the ARRL and RAC.
- In 2014, nearly 38,000 people participated in the 81st annual ARRL Field Day and almost 1.3 million contacts were made.
- Field Day is a picnic, a campout, practice for emergencies, an informal contest and, most of all, FUN!
- It is the Most Popular ham event of the year.

### Important Field Day Statistics

Total CW QSOs	555,912
Total Digital QSOs	54,549
Total Phone QSOs	675,128
Total QSOs	1,285,589
Number of People Entries Active	37,428
	2686

ARRL 2015 Field Day Rules: Object: To work as many stations as possible on any and all amateur bands (excluding the 60, 30, 17, and 12-meter bands) and in doing so to learn to operate in abnormal situations in less than optimal conditions.

## History of Field Day

- The First Field Day was in 1933.
- It started as a simple event proposed in a QST column to test "portable" radio operations.
  - The first FD winner made 62 QSOs, reaching 28 sections.
  - The most contacts made by any club was 92 QSOs.
- Field Day grew and grew each year, becoming an annual tradition now entering it's 82<sup>nd</sup> year.
- Sponsored by the ARRL and RAC.
- The Most Popular ham event of the year.

*Read a fun and detailed history in the December 1999 QST Magazine.*





## Purpose of Field Day

- The purpose of Field Day is the same today as it was almost 70 years ago.....
  - Demonstrate the communications capabilities of the amateur radio community in simulated emergency situations.
  - Develop skills to meet the challenges of emergency preparedness.
  - Learn to operate in abnormal situations in less than optimal conditions.
  - Acquaint the general public with the capabilities of Amateur Radio.

## Reasons to Participate

- Improve Operating Skills and Learn New Skills
- Operate under abnormal conditions
- Practice and Demonstrate emergency preparedness
- Social (Eat, Drink and Be Merry, Operate with Friends)
- A chance to try different radios
- Experiment with antennas, portable equipment, and unusual power sources
- Communication with local community
- Recruiting new hams and new club members
- A casual, low-stress Contest / Competition
- **Have Fun!**



# Field Day 2015 at Markham Park

**BROWARD AMATEUR RADIO CLUB**

**&**

**DAVIE COOPER CITY AMATEUR RADIO CLUB**

**\*\*\* SAVE THE DATES JUNE 26, 27, 28 \*\*\***

**The BARC and DCARC will host Field Day 2015 together at Markham Park**

Come join us at the Corporate Pavilion of Markham Park. There is plenty of room and you will find some good friends, good food, rigs to operate and contacts to be made.

The Broward County Emergency Management Division Communications Vehicle will be visiting our Field Day location on Saturday between 12:00 to 5:00 PM.

We are looking for volunteers, operators, rigs and equipment.

Please contact Tom Hays, N4MEO [hayest6961@gmail.com](mailto:hayest6961@gmail.com) at 954 218-1567 and/or Al Soto, KJ3Q [asoto66@gmail.com](mailto:asoto66@gmail.com) at 954 557-8133.

## Directions:

Markham Park is located at 16001 West, State Road 84. The Park is located west of the Sawgrass Expressway and just North of West State Road 84. This year, we will be holding our Field Day in the Park's main Corporate Pavilion. This is the largest site in the Park, holding up to 225 persons. It is found in the center of the Park, next to the main road overpass. We will have a banner posted and you can easily spot the 70 foot crane planned to be on site for antenna support.

## ATTENTION EVERYONE!!!



I plan to place an order for Field Day supplies (t-shirts, pin, hats, mugs, etc.) in the next week or so to consolidate requests and save the shipping costs.

Please email to me your name, call sign, and the list of items you wish me to include in the order. I will confirm the total via email and you can pay me via cash or check at the next meeting or by mail. If you wish, I can also take PayPal.

If you can, let me know by next Monday, April 20th. I will try to send out a "last call" reminder before placing the order, but as in life, there are no guarantees...

Regards,

Al Soto, KJ3Q 2015 Field Day Chairman [asoto66@gmail.com](mailto:asoto66@gmail.com) at 954 557-8133.

# **SURE-FIRE WAYS TO KILL YOUR ARES® PROGRAM**

An article by David Coursey, N5FDL, QST Contributing Editor  
Sent in by Barry Porter KB1PA

Last month, I offered what I believe are ten ways to grow an ARES® or EMCOMM program. This month, I'll offer a list of ways to do just the opposite. Most are related to leadership.

**Politics** - If you've been around a while, you've experienced the evil of Amateur Radio politics, often made worse because we're a passionate bunch and nobody really has an important (job, money, family) stake in the debate. ARES® is different. We have a public safety mission and people count on us. We do not have time for politics.

A commitment to community service and mission can fill the vacuum politics would otherwise be drawn into. Before you "start something" or play someone else's games, ask yourself, "Is this really worth it?" Sometimes you'll say "yes," but "no" is often a wiser, long-term decision. The best way to avoid politics is honesty and obvious goodwill.

**Failure to communicate and delegate** - This is absolutely key. One of the best ways to keep volunteers - arguably the only way - is to give the ones who want something to do a task they can do and want to do. You need to match the task to the volunteer and be careful to match the task and deadline to the volunteer's reliability. Getting others involved is the key to your group's success. Train these people to become your leaders. Obviously, you need people to know what your plans are, what you need, and what progress is being made. A weekly e-mail is a good way to accomplish this. Monthly is probably too infrequent. If you can't fill at least a short weekly newsletter, you probably are not doing enough to be an active group.

**Not loving your volunteers** - Hot news: As a leader, you can't accomplish very much working alone. Your job is creating excellent volunteer experiences and keeping your volunteers involved, fulfilled, and happy. If you don't really love your volunteers, not merely respect or like them, but love them, you will fail. Think of your volunteers as an extended family and get them to think of each other the same way. Be the example.

**Forgetting to say "Thanks!"** - A wise manager once told me that there is really only one thing you can tell a volunteer - "Thanks" - because you can't force them to do anything. Remind your people constantly that their effort are (1) important, (2) make a difference and (3) are appreciated. You need to concentrate on all three.

**Failure to apologize** - As a leader, you're going to make mistakes. Decisions you make are sometimes going to make people unhappy. You must always weigh the gains made by doing something against the people it will upset and that potential loss. I generally find myself "doing something" while remaining sensitive to the people those actions might upset.

If you follow the adage, "it's easier to apologize than to get permission" then apologies really, really matter. And, you must be successful in the task for this strategy to work. Yet you still risk making permanent enemies. In general: Apologize - sincerely - early, often, and sometimes even when you might not be wrong. But you must be sincere or this will totally backfire.

**Misunderstanding served agencies** - This is a topic for an ARRL Handbook-sized essay, but if you don't understand what your agencies need and want, how they function, and what they value, you will not have a good relationship with them. That could be your undoing. Work with multiple agencies to reduce the potential downside.

**Not investing in growth** - This is absolutely key. I don't care how you do it, but you need to constantly work to sign up and train new members. I am a big fan of ARES® groups and Community Emergency Response Teams (CERT) working together. See my article in May, 2011 QST for more on that. Do what works in your area, but you may be better off creating new hams than re-recruiting the burnout cases. Last month, I recommended one-day HamCram licensing events as a growth tool. Not everyone agreed, so here is my response to a HamCram critic. How to do a HamCram? [Click here.](#)

**Not investing in relationships** - The primary job of ARES® leaders isn't radio, its relationships -- with volunteers, agencies, one another, allied groups, etc. If you put your time and effort into building relationships among people, your communications capabilities will improve by multiples.

**Personal burnout** - Leaders need to look after one another as well as themselves. If you need help, support, or cheering up, ask for it, especially from the leaders you have created. You can always drop me a note, too.

I'd like to tell you I am an expert at all these things, but it would be a lie. Still, these are what I try to focus on: Excellent volunteer and program management. Members make the ARES® world go 'round. - David Coursey, N5FDL, Contributing Editor (visit his blog)

# EMERGENCY Communication

## THE FOUR C'S OF EMERGENCY COMMUNICATIONS

With permission From Tom N4AOF

The Four C's of Emergency Communications Tom Currie, N4AOF, recently suggested a few simple ways to improve your overall emergency communications capability. Although Tom has a background with Kentucky REACT, his advice can apply to any organization utilizing emergency communications, either paid or volunteer:

The best advice for anyone performing emergency communications can be summarized by the four C's: Calm, Courteous, Correct, and Concise.

- **CALM:** Try to keep emotion out of your voice. No matter what the emergency, a calm, professional attitude will help keep things cool and get the message through more quickly and accurately. Losing your cool, calm attitude may cost an important message. The more reason you have for getting excited, the more important it is for you to remain calm. As an emergency communications volunteer you should set a good, calm example for the other people to follow.
- **COURTEOUS:** You must think of yourself as a public servant. Regardless of provocation, remain courteous at all times. Never display temper on the air. Remember the "Golden Rule" at all times and practice it. Never fight with other operators over calls or reports. Always follow the instructions of the Net Control Station whether you agree with those instructions or not. Most problems can wait until after the emergency situation is over. If some problem absolutely must be ironed out, do it by telephone or on another frequency - not on the net.
- **CORRECT:** Work to keep errors out of your communications. Use the phonetic alphabet and repeat the message where appropriate to get names, locations, and other information accurately. Write everything down for reference. Remember, your role is communications - you are not in charge of anything - most communications will be between the people who are in charge - when the Emergency Operations Center or Net Control Station asks a question, go get the answer from the person responsible, and don't just give your best guess. It is always better to admit you don't know rather than give out information that is wrong. Always use plain language -- Don't use jargon, Q-signals, 10-codes, etc., which may not be understood by everyone. Avoid using specialized words and codes, even those of the agency you are supporting unless the message is going specifically to the same agency.
- **CONCISE:** Your job as an emergency communications volunteer is to get the message transferred while also allowing time for the other operators to get their messages transferred. Avoid tying up the net by keeping your transmissions as brief as possible. Always leave a few seconds between transmissions in case someone needs to break in with an emergency call. A strictly business attitude is your best technique for assuring time saving communications. You must consider the conditions - if everyone is full-quieting, there is little need to spell words, but if conditions aren't good or the word is particularly difficult, then it makes sense to spell it. Don't rush - speaking a little bit slower often gets the message through faster because the other operator doesn't have to ask for repeats. Don't assume everyone has a pad and pencil instantly ready when you need to send them a long or complex message - ask first, it saves time in the long run.

## **ARES / RACES TRAINING**

# **OPERATING AT YOUR NEXT EVENT**

with permission from <http://www.w4wr.com>

**Operation Arrival** - Plan to arrive early. Your location or staging area may be unfamiliar and you will need the extra time. This will also give you time to set-up and checkout your equipment before the event starts. There are also times when your location may have limited access after a certain time. Being early gets you in before the roads are closed. In most cases the event communications coordinator will announce a time for you to be on site.

**Check-In** - Check in with net control when you arrive at your location. This lets the net control know you are on site and the quality of your communications. In some cases moving about improves communications. If this is the case remember the spot and use it when you need to communicate with net control.

**Traffic Control** - Most, if not all, special events are run as controlled nets. This means that all communications are directed through net control. The net is generally very busy handling traffic. If you need to contact another station, make the request through net control. Net control will hold traffic and give you permission to contact your party. At some events a secondary communication frequency is set up for this very thing. Always give the net control plenty of time to respond, as net control is usually a very busy place. Keep your traffic to a minimum. Give all the details and be precise at the same time. Think about what you are going to say before you transmit. This will maximize the net to emergency traffic if needed and at the same time maximize your battery life. Always be sure to contact net control before you pass your traffic. You want to make sure net control hears and understands your message. As we have heard many times before, listen, listen and listen. If an emergency occurs or the net becomes congested or the noise level at you location increases, listening becomes ever so important. You don't want to miss a call from net control.

**Tactical Calls** - A number of special event nets use tactical calls. These allow an easy identification of a location or function. "Lost and Found," "Sag 1," "Aid 2," are typical of tactical calls used at events. Know your tactical call and listen for it. In closing your transmission always use your FCC call sign.

**Equipment Use** - Choose equipment that works well for public service events. Ease of use should be a prime consideration. Will it provide the communications capability to support the event? The event is not the place to try out that new radio or set-up. Try it out before the event to iron out all the bugs and get the operation down pat. Create a "cheat sheet" to help remember key features for your radio.

**EQUIPMENT Batteries** - Do you have a spare battery? Is it charged? If you have the alkaline battery case, do you have extra batteries for it? If you use gel-cell to power you base set-up will it run for the entire event? Make sure your batteries are charged up at the start of the event. You may never know when the event may become longer than anticipated. Power Cords - Various power cords and adapters can turn a bad situation into a good one. RACES standard connections are preferred on all equipment. Make sure your kit is up to the situation. A cable with "gator" clips on one end is very handy for connecting to the

car battery in a pinch. The cigarette lighter adapter is very handy if your position suddenly needs to become mobile.

**Antennas** - That standard rubber ducky is not necessarily the best antenna for the task. Your favorite repeater may not be the one used for the event. In fact, a number of events are run simplex. Invest in one of the extended performance ducky or a telescoping antenna. If your mobile or a fixed station invests in a 5/8 magnetic mount or pole mounted antenna. A good antenna does more than more watts in most cases.

**Headsets** - At a number of events the noise level is very high. The event sponsors like a lot of loud music, bands and other methods of making noise to enhance the participants' enjoyment. This though is counter-productive to the communicator. In situations like this the headset is a necessity. Make sure it works with your equipment.

**Note Taking** - Net control is not always the one who needs writing materials to keep track of things. All positions need writing materials. Remember the description of the missing runner? A pencil is preferred over a pen (remember the and a note pad should be a staple in your equipment kit. The 4" by 8" "reporter's notebook" is one of the handiest due to its size. Mechanical pencils don't need sharpening and are preferred over wood-lead pencils. At some events, various forms are provided. These range from missing person's reports to log sheets.

**Essentials** - Dress for the weather. Carry wet weather gear or additional outer garments if needed to suit the conditions. Aspirin, antacid tablets, prescription medicine, sunscreen and insect repellent should be part of everyone's personal support kit. Drinks, especially water, and snacks should be included since it may be a long time to lunch. A small, insulated container is handy to carry your snacks and don't forget the lawn chair!

**Zip Lock bags** – Don't forget your gallon size zip lock bags to protect your radio gear and supplies in case it rains. This will allow you to still use your radio when it rains during your assignment.

## Articles Needed



If you have anything pertaining to ARES® / RACES / SKYWARN that you would like to contribute to, and share with others, I would be happy to include your offering in any future edition. I am looking for articles that include hints and kinks, training articles, public service events, pictures, operating tips, ham humor or ham jokes etc.

All articles are to be camera ready. All articles must be in by the first Tuesday of every month. Copyright rules and permission apply to all submissions. Please send your submission to:

Robin / N4HHP Editor [n4hhp@comcast.net](mailto:n4hhp@comcast.net)



# Florida Scanner Law

**843.16 Unlawful to install radio equipment using assigned frequency of state or law enforcement officers; definitions; exceptions; penalties.--**

**(1) No person, firm, or corporation shall install in any motor vehicle or business establishment, except an emergency vehicle or crime watch vehicle as herein defined or a place established by municipal, county, state, or federal authority for governmental purposes, any frequency modulation radio receiving equipment so adjusted or tuned as to receive messages or signals on frequencies assigned by the Federal Communications Commission to police or law enforcement officers of any city or county of the state or to the state or any of its agencies. Provided, nothing herein shall be construed to affect any radio station licensed by the Federal Communications System or to affect any recognized newspaper or news publication engaged in covering the news on a full-time basis or any alarm system contractor certified pursuant to part II of chapter 489, operating a central monitoring system.**

**(2) As used in this section, the term:**

**(a) "Emergency vehicle" shall specifically mean:**

- 1. Any motor vehicle used by any law enforcement officer or employee of any city, any county, the state, the Federal Bureau of Investigation, or the Armed Forces of the United States while on official business;**
- 2. Any fire department vehicle of any city or county of the state or any state fire department vehicle;**
- 3. Any motor vehicle designated as an emergency vehicle by the Department of Highway Safety and Motor Vehicles when said vehicle is to be assigned the use of frequencies assigned to the state;**
- 4. Any motor vehicle designated as an emergency vehicle by the sheriff of any county in the state when said vehicle is to be assigned the use of frequencies assigned to the said county;**
- 5. Any motor vehicle designated as an emergency vehicle by the chief of police of any city in the state when said vehicle is to be assigned the use of frequencies assigned to the said city.**

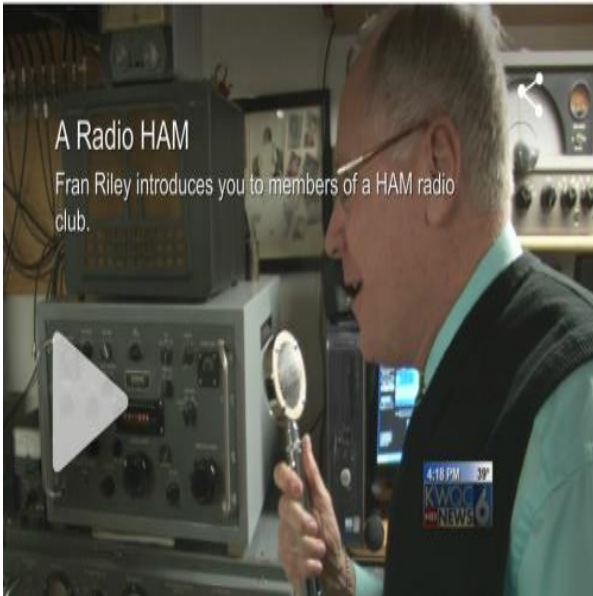
**(b) "Crime watch vehicle" means any motor vehicle used by any person participating in a citizen crime watch or neighborhood watch program when such program and use are approved in writing by the appropriate sheriff or chief of police where the vehicle will be used and the vehicle is assigned the use of frequencies assigned to the county or city. Such approval shall be renewed annually.**

**(3) This section shall not apply to any holder of a valid amateur radio operator or station license issued by the Federal Communications Commission or to any recognized newspaper or news publication engaged in covering the news on a full-time basis or any alarm system contractor certified pursuant to part II of chapter 489, operating a central monitoring system.**

**(4) Any person, firm, or corporation violating any of the provisions of this section shall be deemed guilty of a misdemeanor of the second degree, punishable as provided in s. [775.082](#) or s. [775.083](#).**

# A RADIO HAM

sent in by AI / kd4knv



ROCK ISLAND COUNTY, I'll. (KWQC) — He talks to people all over the world. It's a way of life for Dave Mayfield. Fascinated by electronics, Mayfield is a ham radio operator.

The Rock Island County man has a ham shack in his basement. He collects, restores, and uses ham radio equipment.

Ham radio is a backup communication system for the United States. Mayfield has some vintage equipment in his basement. Much is retired military equipment. Some of it is similar to what was on the airplane which dropped the atomic bomb on Hiroshima.

Dave also uses digital equipment, typing and replying to people by using a more high tech method. Whether by voice, code, or digital, he has made many friends through the world of ham radio communication. He has conversed with people in England, Guantanamo Bay, Russia, and even outer space.

Ham operators also swing into action, assisting with emergency communications and working with public service agencies. That was especially true during Hurricane Katrina. Licensed to operate; he's talking across town, around the world, or to satellites in space. (Clique on the picture)

## Do You Know How to Tell Time?

Since weather systems cross many time zones, information is given in ZULU time --a.k.a. Greenwich Mean Time (GMT) -- as a means of establishing a single time reference. To convert:

**SUBTRACT 4 hours from Zulu time (Z) to convert to EASTERN DAYLIGHT Time in a 24-hr clock format.**

**Example: 1200Z is the same as 0800 Local or 8 am EDT on the Eastern US coast from late spring to mid fall.**

**SUBTRACT 5 hours to convert to Eastern Standard Time.**

## A great promotional video for amateur radio

I saw this on QRZ.com this morning. It's too good not to share!

***Paul A. Passman, WB0BBC***

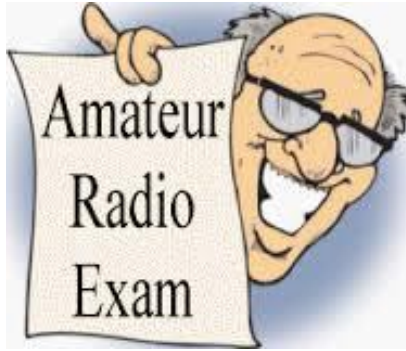
**Published on Jan 16, 2015**

MTN Global's latest brand commercial tells the story of a little boy who discovers, via MTN's world class internet, that it is very simple to build a homemade radio that will allow him to actually speak to an astronaut in space. He tries and fails and tries again, using the New World of MTN to embark on a journey of discovery that takes a rather unexpected turn. Because that's the thing about discovery, there's always more to discover.

<https://www.youtube.com/watch?v=hxU1ZhiNaHk>



# WANT TO TAKE A PRACTICE EXAM AND UPGRADE?



**WANT TO SEE WHAT THE TEST QUESTIONS ARE LIKE?**

**THESE ARE THE ACTUAL ARRL TEST QUESTIONS AND ANSWERS WORD BY WORD EXACTLY AS THEY APPEAR ON THE EXAMS**

**GO TO**



<http://www.eham.net/exams/>

**AND SELECT YOUR TEST TO TAKE**



**+ Technician  
+ General  
+ Amateur Extra**

FOR TESTING DATES & TIME QUESTIONS, CALL TOM HAYES, ARRL Volunteer Examiner Coordinator (VEC)

[n4meo@arrl.net](mailto:n4meo@arrl.net) 954 218-1567

# BROWARD COUNTY AMATEUR RADIO CLUBS AND NETS



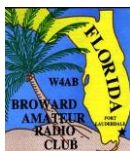
**AllStar:** The AllStar Link portal allows licensed amateur radio stations to communicate with one another over the internet using streaming-audio technology. This allows worldwide connections to be made between stations or from computer to station greatly enhancing amateur radio communications capabilities.

Broward Amateur Radio Club 146.910 MHz -600 Hz PL 110.9 FM AllStar Node 28478

Nodes List: <https://allstarlink.org/nodelist.php>



**American Radio Relay League:** Founded in 1914 by Hiram Percy Maxim, ARRL (American Radio Relay League) is the national association for **Amateur Radio** in the US. Today, with more than 161,000 members, ARRL is the largest organization of radio amateurs in the world. ARRL's mission is based on five pillars: Public Service, Advocacy, Education, Technology, and Membership. <http://www.arrl.org/>



**Broward Amateur Radio Club:** (BARC) W4AB Meets 7:30 PM on the second Tuesday of each month in the Oak Room, which is located at Broward Health Medical Center, 1600 S. Andrews Ave, Fort Lauderdale. Further information is available on the club repeater 146.91 Contact: Tony Becker, KK4GUU BARC President. Phone: (954) 612-9303 E-mail: [tony@mcrsys.com](mailto:tony@mcrsys.com): Club Web site: <http://browardarc.net>, Club Info: [info@w4ab.org](mailto:info@w4ab.org) Club repeaters: 146.910 MHz -600 Hz PL 110.9 FM AllStar Node 28478, 224.76MHz -1.6 MHz PL 110.9 Hz FM, 444.825 +5 MHz PL 110.9 FM, 442.450 +5 MHz no PL DSTAR (Gateway). For information VE Testing contact VEC Tom Hays/N4MEO 954 218-1567 Email: [hayest6961@gmail.com](mailto:hayest6961@gmail.com)



**Broward County ARES®/RACES:** The Amateur Radio Emergency Service (ARES) is a corps of trained **amateur radio** operator volunteers organized to assist in public service and **emergency communications**. It is organized and sponsored by the **American Radio Relay League** The Radio Amateur Civil Emergency Service (RACES) is a standby radio service provided for in Part 97.407 of the **Federal Communications Commission** (FCC) rules and regulations governing **amateur radio** in the **United States**.



**Broward County ARES/RACES:** provides emergency communications through amateur radio in the event of a disaster. They meet every **3<sup>rd</sup> Tuesday of the month, at 7:30 PM**. Broward Health 1600 South Andrews Avenue, Fort Lauderdale, FL 33316 Meeting is held in the Oak Room. Broward County ARES Emergency Coordinator, Carol Sjursen, KJ4AWB ([kj4awb@arrl.net](mailto:kj4awb@arrl.net)) Phone: 954 803-6338, Broward County RACES Officer and Broward County Skywarn Coordinator, Robin Terrill, N4HHP ([n4hhp@comcast.net](mailto:n4hhp@comcast.net)) Phone: 954 249-5343, Broward County ARES/RACES Training Officer Barry Porter, KB1PA ([barryp13@mac.com](mailto:barryp13@mac.com)) 1 561 499-8424 Website: <https://www.facebook.com/BrowardARES/RACES>  
Broward County Emergency Operations Center [Broward County Emergency Operations Center](#)



**Broward County Emergency Preparedness Net (BCEPN):** Broward County ARES RACES provides emergency training. Net meets every Wednesday at 7:00 PM on the 146.910 MHz -600 Hz PL 110.9 Net Manager: Mike Davis Cell: 954 826-4758 Email: [k2mol@seftn.net](mailto:k2mol@seftn.net) Website: <https://www.facebook.com/BrowardARES/RACES>



**Davie Cooper City Amateur Radio Club:** Meets 6:30 PM. on the second Wednesday of each month in class room C. which is located at Westside Regional Hospital 8201 W Broward Blvd, Plantation, FL 33324. Further information is available on the club website, <http://dcarc.org/> Contact: Buzz Bowen, N1BUZ / DCARC President. Phone: (954) 655-6164 E-mail: [buzbowen@comcast.net](mailto:buzbowen@comcast.net)



**DCARC RF Net:** is held on the 146.790 MHz -600 PL 88.5 Hz on the every other Thursday starting at 7:30 PM for an question and answer session or you can tell us what you've been doing; purchased a new rig, worked a new DX contact, upgraded your license, put up a new tower, etc. You can also Buy, sell or trade on this net too. Net Manager Tom Hayes, N4MEO, 954 218-1567, email: [hayest6961@gmail.com](mailto:hayest6961@gmail.com)



**D-STAR:** (Digital Smart Technologies for Amateur Radio) D-Star offers digital voice and slow and high-speed data communications. Slow-speed digital voice and data are transported at 4800 bps, of which 3600 bps is used for voice transmission and the remaining 1200 bps is used for synchronization and general use. <http://www.dstarusers.org/repeaters.php>



**Echolink:** High-Speed digital data communication is transported at 128kpbs and is capable of supporting Ethernet packets and also is fast enough to use for Internet applications such as displaying web pages.

**SFL VOIP Echolink Net:** Repeater Fort Lauderdale 443.625 + PL 110.9. ECHOLINK #48646 Margate Repeater on 444.025+ PL. 107.2 ECHOLINK #269436. Boynton Repeater 147.225+ PL TONE 107.2 Hz and on 444.650-5 PL 127.3 Hz. We meet every Tuesday night at 7:00 PM EST Net MGR. is Harry Sevush, KD4JMV Phone 1 239 322-2586 Email: [kd4jmv@comcast.net](mailto:kd4jmv@comcast.net)



**Gold Coast Amateur Radio Association: (GCARA) W4BUG Meets 7:30 p.m. on the fourth Tuesday of each month (except December) at the Imperial Point Medical Center, 6401 North Federal Highway, Ft. Lauderdale, FL in the hospital auditorium. Refreshments are provided. Dinner is available in the cafeteria @ 5:15pm GCARA / ARRL VE Testing @ 6:00pm in Auditorium C. Meeting starts @ 7:30pm in Auditorium A. Talk-in on 146.610 MHz and 146.820 MHz, -600 PI 110.9 Hz., Other repeaters: 442.50 MHz.+5 PL 151.4 Hz. and 145.340 MHz D-STAR SYSTEM. Contact: John Kramer, W4JRK. GCARA President. Phone: (954) 298-4004 Web: <http://www.w4bug.org/>; E-mail: [W4JRK@hotmail.com](mailto:W4JRK@hotmail.com)**



**Gold Coast Amateur Radio Association: (GCARA) Amateur Radio Fun Net every Thursday. Starts @ 7:00pm on 146.610 MHz and 146.820 MHz, -600 PI 110.9 Hz. Discussion: Anything the check-in wishes to discuss. Everything from Ham Radio topics to general information. It's an easy come format and I never have a set discussion. It's where the station ops takes it. Contact: John Kramer, W4JRK. GCARA President. Phone: (954) 298-4004 Web: <http://www.w4bug.org> E- mail: [W4JRK@hotmail.com](mailto:W4JRK@hotmail.com)**



**Internet Radio Linking Project:** (ILRP) uses Voice-Over-IP (VoIP) custom software and hardware. Coupled with the power of the Internet, IRLP will link your repeater site or simplex station to the world in a simple and cost effective way. IRLP operates a worldwide network of dedicated servers and nodes offering very stable worldwide voice communications between hundreds of towns and cities. All this with unsurpassed uptimes and the full dynamic range of telephone quality audio. Node: 7830 WB2NBU Wellington FL USA +147.2850 No PL.



**Knight Of The Roundtable Net:** When all else fails, keep it Simplex. This is an open Forum Radio Group. We meet every Monday starting at 7:30 on either the 146.550 MHz (no PL tone) Simplex frequency or on a back-up frequency 145.555 (no PL tone) Simplex frequency. At that time Check-ins will be taken and begin our Rag Chew session. Web: [www.knightsoftheroundtable.info](http://www.knightsoftheroundtable.info) [www.knightsnet.org](http://www.knightsnet.org) NCS: Kenny Hollenbeck KD4ZFW Cell 954 692-4600 Email: [kd4zfw@gmail.com](mailto:kd4zfw@gmail.com)



**Motorola Solutions Amateur Radio Club: (MARC) (open only to current and former Motorola employees) Contact: Rich Pratt, K4XF. Web: E-mail: [w4mot.club@gmail.com](mailto:w4mot.club@gmail.com)**  
The repeaters are accurately listed on QRZ.com under the call sign W4MOT.  
Current VHF repeater is 146.790 – 600 PI 88.5 Hz



**Hurricane Watch Net:** 14.325 MHz The Hurricane Watch Net consists of a group of licensed Amateur Radio Operators trained and organized to provide essential communications support to the National Hurricane Center during times of Hurricane emergencies. Our primary mission is to disseminate tropical cyclone advisory information to island communities in the Caribbean, Central America, along the Atlantic seaboard of the U.S., and throughout the Gulf of Mexico coastal areas. We also collect observed or measured weather data from amateur radio operators in the storm affected area as well as any post storm damage, and convey that information to the Hurricane Forecasters in the National Hurricane Center via the amateur radio station in the center ([WX4NHC](http://WX4NHC)).





**Palmetto Amateur Radio Club: (PARC) Meets quarterly. Meeting place announced on the club web site: <http://www.palmettoarc.org>** The Palmetto Amateur Radio Club's Repeater's. Call Sign: K4PAL 146.850 MHz - 600 PL 91.5 Hz, 442.250 MHz +5 PL 114.8 Hz., 147.210 MHz - 600 PL 103.5 Hz., 147.375 MHz - 600 PL 91.5 Hz, 443.825 MHz +5 PL 103.5 Hz.  
Contact: Edward Kashuba / WD4HIP. Phone: (954) 551-9463 E-mail: [questions@palmettoarc.org](mailto:questions@palmettoarc.org)



**Southeast Florida Traffic Net: (SEFTN)** SEFTN is part of the [American Radio Relay League's](#) National Traffic System. We meet daily at 6:00 PM local time on 146.61MHz- with a PL tone of 110.9, or 442.50MHz+ with a PL tone of 151.4, which is the [Gold Coast Amateur Radio Association](#) repeater. Our backup frequency is 146.79 MHz with a PL tone of 88.5, which is the [Motorola Amateur Radio Club](#) repeater. Learn the [ARRL MESSAGE FORMAT](#)



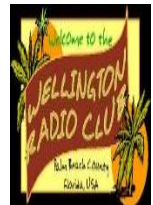
**National Traffic Service:** Our purpose is to pass formal written traffic, announce amateur radio events, deliver information on severe Weather, and to provide training for new operators and net control stations. We also provide emergency or special sessions when necessary and will assist agencies under [Homeland Security](#), such as [FEMA](#) and [Broward County Emergency Management](#), and the Broward County Emergency Coordinator, if called upon to do so. Thank you for visiting and we hope you will join us on the air. Web site: <http://seftn.net/> Net Manager is Mike Sanner, KM2V Email: [km2v@arrl.net](mailto:km2v@arrl.net)



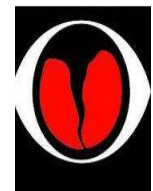
**How to Become a Skywarn Storm Spotter:** [SKYWARN](#) Amateur Radio Serving the National Hurricane Center Covering all counties served by the Miami forecast office of the NWS on your local Florida AllStar Hub Repeater Since 1965 [WX4SFL Skywarn Net FL AllStar Wiki](#) The National Weather Service in Miami-Dade Florida [National Weather Service](#) The Amateur Radio Station at the National Hurricane Center for over 35 years. [National Hurricane Center](#)  
"Become A Storm Spotter From Home" <http://www.improvenet.com/a/become-a-storm-spotter-from-home>



**South Florida DX Association: (SFDXA) K4FK Meets 7:33 p.m. on the first Wednesday of odd numbered months at Florida Medical Center, Ft. Lauderdale, FL which is located at 5500 West Oakland Park Blvd. Further information is available on the club repeater 147.33/93 PL 103.5 DX Net: Wed. evenings at 7:30 PM on the club repeater. Contact: Ed Callaway N4II / SFDXA President E-mail: [n4ii@arrl.net](mailto:n4ii@arrl.net) Web: <http://www.qsl.net/k4fk/> WR4AYC Repeater Group Contact: Marshall A. Paisner, K4MAP. Phone: (954) 873-2234 Web: <http://wr4ayc.org/> E-mail: [wr4ayc@arrl.net](mailto:wr4ayc@arrl.net)**



**Wellington Radio Club:** in Palm Beach County leads the effort to promote and train amateurs in the reliable transmission of complex documents such as FEMA and Red Cross forms and spreadsheets. All done with only with a computer, simple and free software and a transceiver. No special equipment or cables are needed. It's called Basic Narrow Band Emergency Messaging System. Repeaters and nets 147.285 +5 PL 103.5 and 442.050b +5 PL 103.5. Emergency Net on Mondays 7:30 PM on the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> Mondays on VHF. This net also meets on holidays. President Larry Lazar KS4NB Phone: (561) 694-0868 Email: [LARRY33414@aol.com](mailto:LARRY33414@aol.com) Beginner's Guide to FLDIGI [FLDIGI User's Guide](#) Free FLDIGI/FLMSG Digital software download site [FLDIGI/FLMSG Download](#)



**WX4SFL South Florida Regional Skywarn Training Net:** The Purpose of the net is to assist SkyWarn operators in the training for and handling of emergency communications, to provide useful information to SkyWarn Members, and to familiarize people with directed net operations. We provide support for the NWS WFO's in both Miami and Key West. The Net meets every Thursday night at 1930 hrs. Local time on the SoFla AllStar Broward Amateur Radio Club 146.910 MHz -600 Hz PL 110.9 FM AllStar Node 28478. Net Mgr.: Chris Vasilenko, K4FLL phone: 954-465-8425 email: [WX4SFL@earthlink.net](mailto:WX4SFL@earthlink.net) [www.facebook.com/SouthFloridaRegionalSkywarn](http://www.facebook.com/SouthFloridaRegionalSkywarn)

**If you know of any Broward County clubs or training nets that are not on this list or you notice an error in a listing, please contact me. Robin Terrill, N4HHP Editor [n4hhp@comcast.net](mailto:n4hhp@comcast.net)**

# FAVORITE SOUTHEAST FLORIDA REPEATERS AT A GLANCE

## DADE — BROWARD — PALM BEACHES

Output Freq. MHz (In Numerical Order)	Offset	PL in Hz	Location	Callsign	Notes
145.270	-	-----	Parkland	WR4AYC	
145.290	-	110.9	Boca	N4BRF	Monday Club Roundtable 7:00 PM
145.290	-	110.9	Boca	N4BRF	Monday New Ham Net 7:30 PM
145.290	-	110.9	Boca	N4BRF	Wednesday Training Net
<b>Starts at 7PM for South County, 7:30 for North County and 8 PM for Central County</b>					
145.340	- D	-----	Fort Lauderdale	W4BUG	
146.550	S	-----	Broward County	-----	Knights of the Roundtable
146.555	S	-----	Broward County	-----	Knights of the Roundtable
146.610	-	110.9	Pompano Beach	W4BUG	SEFTN Net 6:00 PM Daily
(GCARA) Amateur Radio Fun Net every Thursday. Starts @ 7:00pm on 146.610 MHz and 146.820					
146.615	-	110.9	North County	W4JUP	North Co. ARES Net 7:30 PM
146.790	-	88.5	Plantation	W4MOT	
146.820	-	110.9	Boca Raton	W4BUG	
146.850	-	91.5	Hollywood	K4PAL	
146.910	-	110.9	Fort Lauderdale	W4AB	BCEPN Wednesday at 7 PM
146.910	- A	-----	Fort Lauderdale	W4AB	AllStar Node 28478
147.045	+		Central County ARES Net 8 PM		
147.075	I	110.9	Delray	W2GGI	IRLP, node 9050
147.210	+	103.5	Dade/Broward Co. Line	K4PAL	
147.225	+	123.0	Boynton Beach	N4RP	
147.225	+	107.2	Boynton Beach	N4AP	South County ARES Net 7 PM
147.330	+	103.5	Fort Lauderdale	K4FK	
147.375	+	91.5	Dade/Broward Co. Lin	K4PAL	
224.460	+	110.9	Pompano Beach	W4BUG	
224.760	+	110.9	Plantation	W4AB	
442.200	+ D	-----	Fort Lauderdale	W4BUG	
442.250	+	114.8	Dade/Broward Co. Lin	K4PAL	
442.450	+ D	-----	Fort Lauderdale	W4AB	DStar Gateway
442.500	+	110.9	Pompano Beach	W4BUG	
442.825	S	110.9	Andytown on Alligator Ally		SARNET (Not On Yet)
442.850	+	110.9	Fort Lauderdale	-----	SARNET
442.875	+	110.9	Boca Club		
442.875	+ E	110.9	Boca Club		Echolink Node 826953
443.825	+	103.5	Dade/Broward Co. Line	K4PAL	
443.850	+	110.9	Coral Springs	WR4AYC	
443.975	S	110.9	Palm Beach	K4EEX	SARNET
444.025	+	107.2	Margate	KA4EPS	
444.600	S	94.8	Fort Lauderdale	K4AG	SARNET (Not On Yet)
444.825	+	110.9	Fort Lauderdale	W4AB	

**Note: S = Simplex D = DStar A = AllStar I = IRLP E = Echolink S = SARNET**

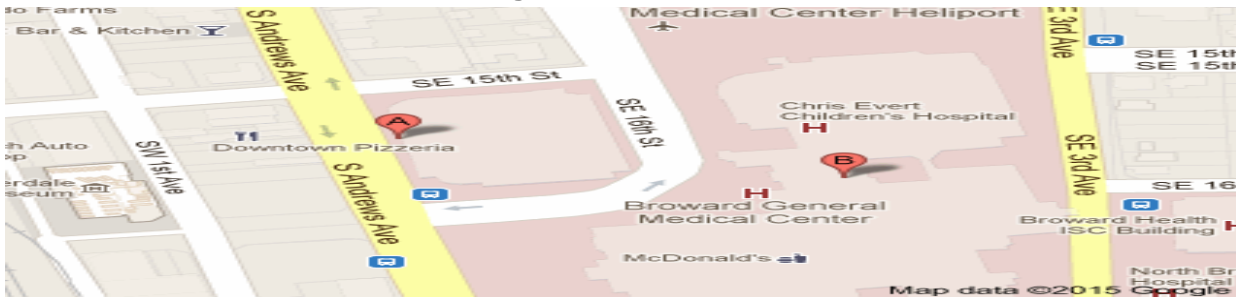
**If you know of any Broward County clubs or nets that are not on this list or you notice an error in a listing, please contact me. Robin Terrill, N4HHP Editor [n4hhp@comcast.net](mailto:n4hhp@comcast.net)**



# **Broward County ARES® /RACES**

**3<sup>rd</sup> Tuesday of the month, at 7:30 P.M. Meeting in the Oak Room.**

**Broward Health (The old Broward General Medical Center)  
1600 South Andrews Avenue, Fort Lauderdale, FL 33316  
Meeting is held In the Oak Room**



Parking will be in the 7 story parking garage, (see A Above). The entrance to the building is on the first floor directly across from the parking garage (see B above). You will need to go in the main entrance and sign in at the security desk and they will issue you a pass to wear. Bring a driver's license with you or a picture I.D. Do not by-pass security. They will tell you how to get to the Oak Room.

From I-95 or 595

Take I-95 or 595 to SR 84. Go east on 84 until you get to Andrews Avenue turn left (North) until you get to the hospital on your right. 1600 South Andrews Avenue

From I-95 to Broward Blvd

Take I-95 to Broward Blvd. East on Broward Blvd until you get to Andrews Avenue turn Right (South) until you get to the hospital on your Left. 1600 South Andrews Avenue

Talk-in will be on the 146.910 Mhz. -600 PL 110.9 Hz.  
If you get lost or need directions, please call our cell phones:

**Robin Terrill, N4HHP RACES Officer 954 249-5343**

**Carol Sjursen, KJ4AWB ARES® EC 954 803-6338**

**Barry Porter, KB1PA ARES/RACES Training OFFICER 1 561 499-8424**



Sign Up to Receive Your Free Tropical Weather Emails



**ARRL** The national association for **Amateur Radio**  
**CENTENNIAL**  
Advancing the Art and Science of Radio—Since 1914

If you would like to receive this training Newsletter when they come out, please reply to [n4hhp@comcast.net](mailto:n4hhp@comcast.net)