Welcome to Amateur Radio

This Resource Provided By The Fort Myers Amateur Radio Club Welcome To The Club. We Are Here To Help!

Repeater Basics - Remember you can use any Ham Radio Repeater!

Break — Once a continuous transmission stretches more than two minute, you can say, "Break", key off and allow the repeater to cycle off. Then Key back up and go again. Most Repeaters Will Cut You Off at 3 Minutes.

Pair — the pair of frequencies (input and output) used by a repeater - Our

repeaters require a tone to access. This Pair can be programmed into a channel on your radio for use on a repeater. The Repeaters Receive and Transmit Frequency are opposite yours.

Full Quieting — a received signal that contains no noise.

Input Frequency — the frequency of the repeater's receiver

Kerchunk — To Click a repeater, but not say anything - You Should Always Identify when you Transmit.

Output Frequency — the frequency of the repeater's transmitter

Simplex — a mode of communication in which users transmit and receive on the same frequency - This mode does not use repeaters and requires the users to be relatively close.

To Start a Conversation On A Repeater — just key your mic and say your call sig and the last3 Digits of the Frequency. "This Is XX1XXX.. On the 860 Repeater"

Transmit Delay — When using repeaters key your mic and then wait 1 full second before saying anything. This will allow the repeater to fully activate.

When Calling in on Nets — Say "This Is" before your call to make sure your call does not get cut off.

Common Radio Modes - Amateur Radio Operators Use Several Modes to Transmit Voice and Data.

Amplitude Modulation (AM)

The transceiver produces a carrier wave at the frequency of transmission. Voice is superimposed on the carrier wave and alters its shape by changing the Amplitude or height of the wave. Hence the frequency and wavelength of the carrier do not change with this form of modulation..

Single-Sideband Modulation (SSB)

Single sideband modulation is widely used in the HF portion, or short wave portion of the radio spectrum for two way radio communication. Single sideband, SSB modulation is basically a derivative of amplitude modulation, AM. By removing some of the components of the ordinary AM signal it is possible to significantly improve its efficiency.

Frequency Modulation (FM)

The transceiver produces a carrier wave, in the same way as for Amplitude Modulation. In this case, however, voice is added to the carrier so that frequency changes. This, in turn, affects the wavelength of the carrier, but the amplitude remains constant.

Standard CW Q-Codes / Radio Q-Codes (*)

You Are Not Required To Use These Codes - But, It Is Good To Learn Them / Primarily Used On HF Bands

- ORG Your exact frequency / tell me my exact frequency
- I am busy / Are you busy? Usually used to see if a frequency is busy. ORL
- QRM* Your transmission is being interfered with
- QRN I am troubled by static / Are you troubled by static?
- Increase power / Shall I increase power? QRO
- QRP* Decrease power / Shall I decrease power?
- Send faster / Shall I send faster? QRQ
- ORS Send more slowly /Shall I send more slowly?
- **ORT*** Stop sending / Shall I stop sending?
- QRU I have nothing for you. Have you anything for me?
- QRV I am ready. Are you ready?
- QRX hours / will you call me again I will call you again at _
- You are being called / Who is calling me? . QRZ
- QSB Your signals are fading. Are my signals fading?
- QSK I can hear you between signal / Can you hear me between your signals
- QSL I am acknowledging receipt. Can you acknowledge receipt
- QSO* I can communicate with direct Can you communicate with
- General call preceding a message addressed to all amateurs "CQ ARRL." QSP ?
- / Will you relay to QST I will relay to
- QSX I am listening to ____ on ____kHz. Will you listen to ____on ____kHz?
- OSY Change to transmission on another frequency / Shall I change frequency QTC I have messages for you / How many messages have you to send?
- QTH My location is . What is your location?



WEBSITES TO KNOW

www.FMARC.Net - Fort Myers Amateur Radio Club

www.ARRL.org - ARRL The National Association for Amateur Radio

www.QRZ.com - Share your contact info, look up other Amateur Stations

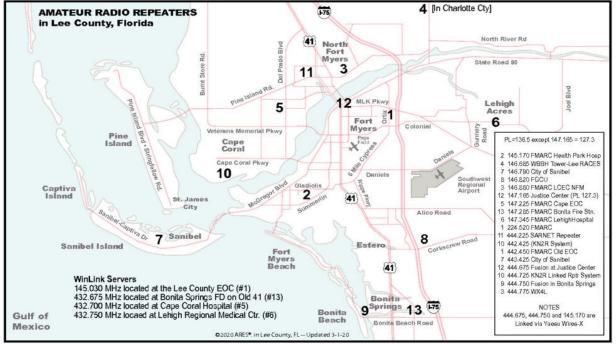
Standard Phonetic Alphabet & Morse Code Please Try To Always Use Standard Phonetics

Δ Alfa В Bravo С Charlie D Delta Ε Echo F Foxtrot G Golf н Hotel India J Juliet Κ Kilo Lima Μ Mike Ν November 0 Oscar Ρ Papa Q Quebec R Romeo S Sierra т Tango U Uniform V Victor W Whiskev Х X-Ray Υ Yankee Ζ Zulu

Amateur Radio Bands

160 Meters (1.8-2.0 MHz) 80 Meters (3.5-4.0 MHz) 40 Meters (7.0-7.3 MHz) 30 Meters (10.1-10.15 MHz) 20 Meters (14.0-14.35 MHz) 17 Meters (18.068-18.168 MHz) 15 Meters (21.0-21.45 MHz) 12 Meters (24.89-24.99 MHz) 10 Meters (28-29.7 MHz) 6 Meters (50-54 MHz) 2 Meters (144-148 MHz) 1.25 Meters (222-225 MHz) 70 Centimeters (420-450 MHz) 33 Centimeters (902-928 MHz) 23 Centimeters (1240-1300 MHz)





NOTES: The Repeater List in the lower right corner is in "Frequency Order." So, if you know the frequency of the repeater, you can find it's location by referencing the number to the left of the frequency. If you're interested in know which repeaters are located at each location, search the left side of the list to find the "Location Number" you're searching for.

ARES Standard Frequency List for Lee County

It is a Great Idea to Program Your Radios to the Same Numbers

- 1 147.165+ 127.3 EOC Repeater Justice Center
- 2 146.475 Simplex EOC Area VHF Simplex
- 3 146.820- 136.5 Grn Area Repeater FGCU Tower
- 4 146.580 Simplex Grn Area VHF Simplex
- 5 147.345+ 136.5 Yel Area Repeater Lehigh Med Ctr
- 6 146.460 Simplex Yel Area VHF Simplex
- 7 146.880- 136.5 Blu Area Repeater LCEC
- 8 146.490 Simplex Blu Area VHF Simplex
- 9 147.225+ 136.5 Red Area Repeater
- 10 146.550 Simplex Red Area VHF Simplex
- 12 146.520 Simplex National Calling Frequency 14 145.010 Simplex Use for WinLink Peer-to-Peer Comms
- 14 145.010 Simplex Use for WinLink Peer-to-Peer Comms
- 15 145.030 Simplex VHF WinLink W4LCO-10 New EOC
- 16 145.090 Simplex Use for WinLink Peer-to-Peer Comms
- 17 432.675 Simplex UHF WinLink W4LCO-10 Bonita Springs FD
- 18 432.700 Simplex UHF WinLink W4LCO-10 Cape Coral
- 19 432.750 Simplex UHF WinLink W4LCO-10 Lehigh Med Ctr 20 145.170- 136.5 Linked2 Analog & FUSION Health Park Hospital
- 21 145.390- 136.5 K4QCW East Fort Myers
- 22 146.685- 136.5 Lee County RACES WBBH Tower (KF4QWC)
- 23 146.715- 74.4 N2FSU Lehigh Acres
- 24 146.790- 136.5 W4SBL FUSION4 Sanibel PD
- 25 147.285+ 136.5 W2PAX Bonita Springs FD
- 26 442.450+ 136.5 FMARC Old EOC
- 27 443.425+ 136.5 City of Sanibel Sanibel
- 28 443.450+ D-Star W4LCO New EOC
- 29 444.225+ 136.5 SARnet North Fort Myers
- 30 444.450+ 77.0 WB4FOW East Fort Myers 31 444.675+ 136.5 ARES – FUSION2 Justice Center
- 32 444.725+ 136.5 KN2R3 Linked UHF
- 33 444.750+ 136.5 ARES FUSION2 Bonita Springs
- 34 444.775+ 136.5 WT4T LCEC North FM
- 36 446.000 Simplex National Calling Frequency
- 40 145.250- 136.5 AA4FB** Englewood 41 (Also 22) 146.685- 136.5 KF4QWC WBBH Tower
- 42 146.745- 136.5 WX4E Punta Gorda
- 43 146.865- 136.5 K8ONV Port Charlotte
- 44 146.925- 136.5 N4FOB Port Charlotte
- 45 147.015+ 136.5 KS4ST Port Charlotte 46 147.255+ 136.5 W4DUX5 Port Charlotte
- 50 442.925+ 136.5 W4DUX-DMR Port Charlotte
- 51 444.600+ 82.5 N9OJ Murdock
- 52 444.975+ 136.5 WX4E Punta Gorda





DAILY NETS

>>SWFL Traffic Net (CH22) Monday - Saturday 10am -The SWFTN is the local affiliate of and is sponsored by the American Radio Relay League's National Traffic System. The primary function of the SWFTN is to handle formal Radiogram message traffic as part of the NTS.



ENCY

SUNDAY

>> Loggerhead Net 7:30pm 146.790 (-) (136.5) - A Great Rag Chew Sponsored by the City of Sanibel on the VHF Repeater Located on Sanibel Island.

>> Windmill Net 9pm 28.475 USB

Break out the HF Rigs. This is a great opportunity to work with 10 Meter equipment. This Net Operates on a portion of the 10M Band that is Open to Techs.

MONDAY

>> FMARC Club Meeting On The Air Net - 7pm (CH22) - Join us every week for our club meeting and member check ins. The officers will have reports.

>> FMARC Swappers Net - (CH22) Immediately Following the

Meeting on the air. Buy, Sell, Trade, or Swap Amateur Radio Equipment..

>> Newbie Net - (CH03) Immediately Following the Swappers Net Immediately Following the FMARC Swappers Net - A great net for folks to get some no pressure mic time and discuss all things related to the Hobby.

WEDNESDAY

>> ARES/ALERT 7pm (CH01) Guest Check Ins Welcome - Weekly Net Meeting of the Lee County ALERT Team.

>> 220 Net "The Net With No Name" 7:30pm 224.520MHz (-) No PL -A Rag Chew on a Great Band that is Seldom Used. One of the Only 220 Nets in FL, >> Yaesu Fusion Technical Net 8pm 444.685 Room 21805 - Digital Radio Equipment is Required to get on this net.

THURSDAY

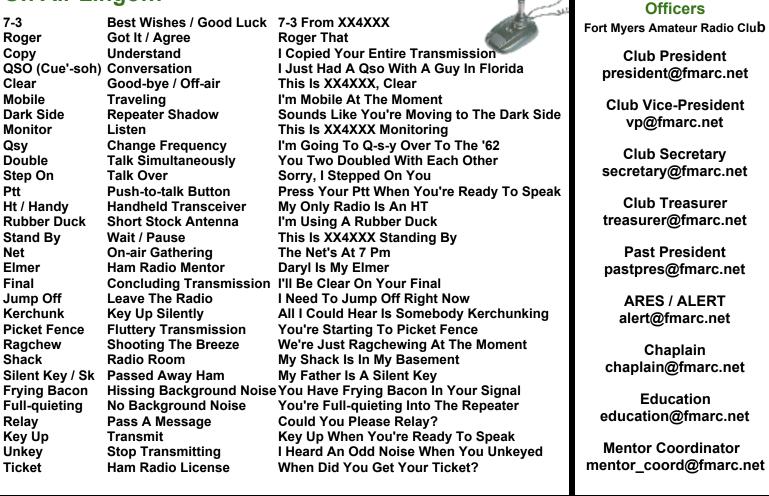
>> DMR & D-Star Technical Nets 7pm Check for Night - Digital Radio Equipment is Required to get on these nets.

>> Cape Coral Gabfest 8pm 146.490 (simplex) No PL One of the only Local Simplex Nets. This is a Great Net for testing range and utilizing directional antennas. It's also a Great Discussion.

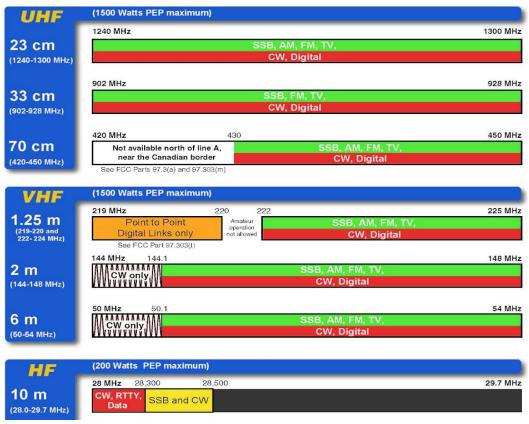
FRIDAY

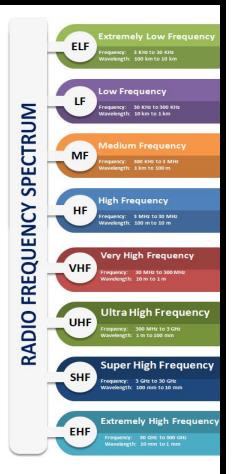
>>SWFL Tech Net 8pm - www.SWFLTech.Net 8pm on CH22 A Hybrid Net with an Internet Component. Old Nets are archived on the website.

On Air Lingo...



Band Allocation For Amateur Radio Technicians





Contact Your Club

10 Things You Can Do Right Away!

1) Check In On Area Nets. Our Club and Neighboring Clubs hold a multitude of Radio Nets designed for you to get some mic time, meet local hams, and learn about the hobby, All Hams are Welcome on All Nets! Don't Be Shy! Make sure not to miss the Club Net and Newbe Nets on Monday Nights starting at 7pm and the SWFL Tech Net on Friday Nights at 8pm.

2) Learn to send and receive traffic (Radio Messages) on the Southwest Florida Traffic Net. Tune in on the 146.685 Repeater (Channel 22) every morning except Sunday at 10am. Find out more here: www.FMARC.net/swftn

3) Join fellow hams at the FMARC Swap Shop every second and last Saturday of the month at 11am. We have lots of ham gear and parts for sale, and many come to sell (TailGate) as well. This is a great place to meet other hams and grab some cheap parts or a great rig. Location: Waterway Park, 5820 Poetry Lane North Fort Myers, FL.

4) Join the FMARC Lunch Bunch at Anthony's On The Blvd. 1303 Del Prado Blvd. in Cape Coral every Thursday at 11am. The Lunch Bunch is a wonderful opportunity to meet with fellow Hams, share a meal and camaraderie. Bring a guest! Bring a friend! It's also a great way to introduce individuals to the hobby who may be interested in becoming a ham.

5) Check the FMARC Club Calendar and see what is coming up. You are welcome at every event listed. Join Club Members for Field Day Events, Meetups, or Contests.

6) Sign up on QRZ.com and put in your Email Address so Hams can find you and get ahold of you. It is also great to update your Bio Page and Pic.

7) Get an Email Address with your callsign. XX4XXX@Gmail.com or pick any number of other free sites offering email addresses. This also helps keep all your ham stuff in one place. You can also Join ARRL and they will give you a link through email box XX1XX@ARRL.net.

8) Check out Ham Radio Podcasts on any Podcast Search Engine. You can learn alot while driving to work or taking a shower.

9) Download Programming Software, get a cable and learn to program your radio.

10) Sign up for Echolink and connect with Hams around the world from your computer.

So Once I Get Going... Then What.. Well..

- Next you can get your General License and Talk around the world without the Internet or cell phones.
- Learn to Send your voice, text and pictures to unusual places, both near and far.
- Create your own network of ham radio friends and send instant text messages without cell phones.
- Join ARES and Help Your Local Area when Disaster Strikes
- Meet awesome people from all over the U.S. and around the world, on-the-air and in person at ham radio events.
- Then.. Talk through satellites or with astronauts on board the International Space Station.
- Learn how to program all of your own equipment and radios.
- Make and Tune your own antennas. Design Homebrew Creations that really work!
- Put up a tower and check in on nets up to 100 miles away
- Learn how to Send and Receive Messages in Morse Code.
- Be a signal sleuth, "Fox" hunt for hidden radio signals, and with GPS -- GeoFox!
- Investigate the many new combined radio-Internet communication techniques.
- Try a new sport -- Radiosport: Compete on-the-air for awards and fun!
- Send a message around the world using less electricity than a nightlight.
- Become a weather spotter and help your community prepare for weather events.
- Get involved in Scouting programs and participate in worldwide youth radio events.
- Use your radio for community service! Provide communications for an event.
- Take ham radio along when you go hiking or camping. Never be out of contact.
- Learn how radio is used to explore space.
- Use Amateur Radio to control models, robots, or even drones.
- Do it yourself, build and test your own gear.
- Experiment with new software applications for radio, or create your own.
- Explore the radio science that powers cell phones, Bluetooth and all of the hottest wireless technologies
- Learn to Solder and Build Your Own Equipment
- Learn about the Science of Propagation and how it is affected by atmospherics and space weather
- Bounce Radio Signals off of the moon and talk to hams all over the world.
- Build Radio and Electronic Kits and then use them in everyday applications.

Mission Statement - The Mission of the Fort Myers Amateur Radio Club (FMARC) is to recruit, train and help committed Ham Radio operators carry on the tradition of amateur radio by using our network of technical resources and expertise to provide equipment, skilled operators and emergency services when called upon by local authorities in time of need to assist and protect the citizens in the communities in which we live and serve. FMARC is dedicated to community service and providing education to the general public about the history, operation, functions and benefits of the Amateur Radio Service. FMARC is Service. FMARC is Service. FMARC is dedicated to community service and providing education to the general public about the history, operation, functions and benefits of the Amateur Radio Service.

