

Note: We will be recording all Bootcamp Sessions. Anyone not wishing to be recorded should mute their video or disconnect.



OPERATING ON THE HF BANDS – SSB VOICE

Ham Bootcamp

Spring 2024

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The Language of Amateur Radio

Q-Signals and Shorthand



- **CQ** – I am calling anyone who can hear me and wants to communicate
 - **DX** – Distant Contacts (not in the USA)
 - What might **CQ DX** mean?
- Signal reports – **“You Are 59”**
 - First number is readability: **2 – You are barely understandable**
5 – It’s like you are in the room with me
 - Second number is signal strength: We get this from the ***S-Meter*** on our Radio
 - **9 and above is very strong**
 - **7 is pretty good**
 - **5 is OK and will usually provide decent audio**
 - **Less than 5 is weak and may be hard to understand**
- **Q-Signals** are the universal Amateur Radio shorthand
 - **QSL** – Do you understand? I understand.
 - **QSB** – There is fading on your signal.
 - **QRM** – Another station is interfering with you.
 - **QRT** – I am going off the air
 - **73** – Goodbye, best wishes.

Phonetic Alphabet

Good communications in difficult conditions



Phonetic Alphabet

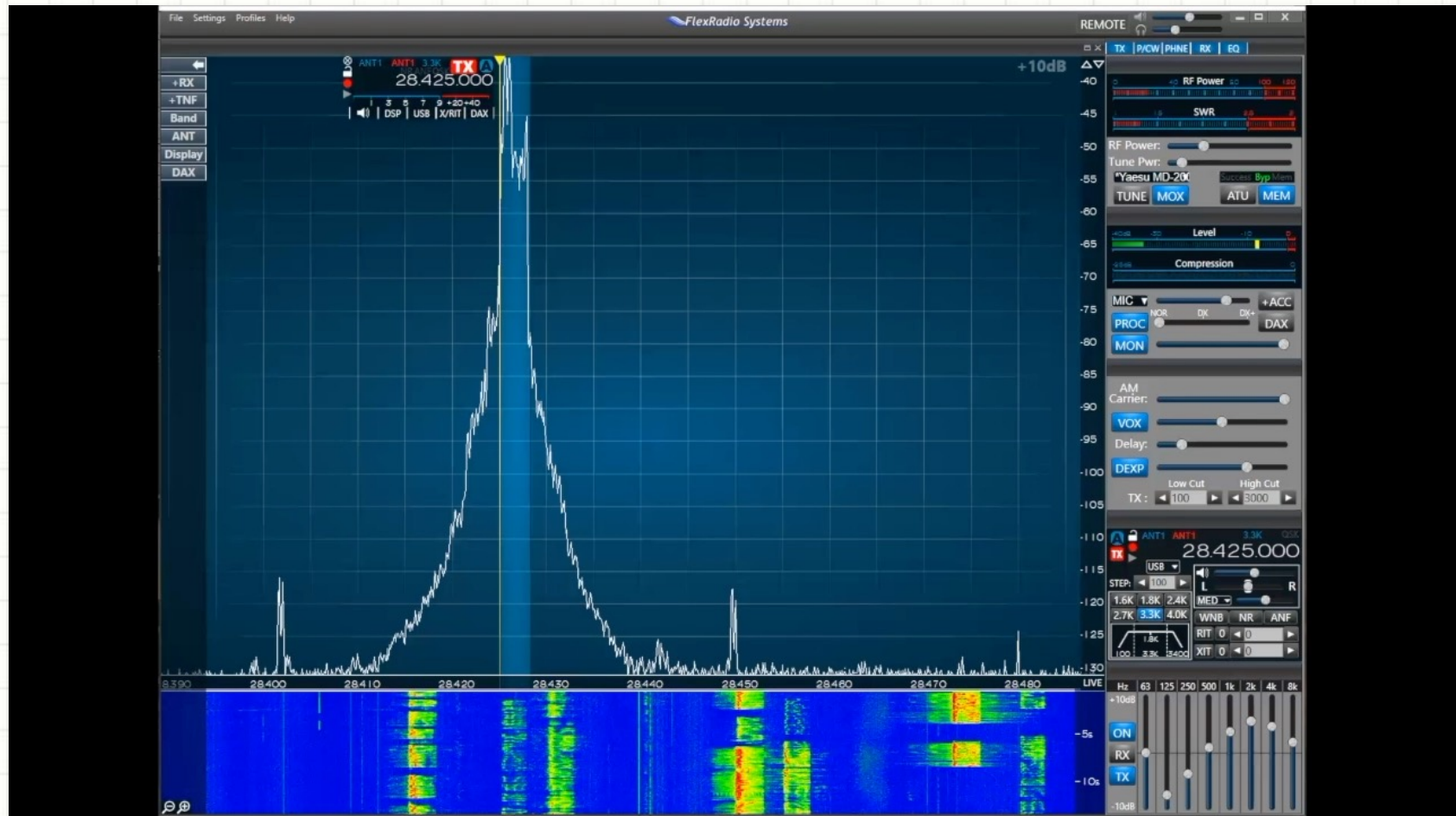
A - Alpha	N - November
B - Bravo	O - Oscar
C - Charlie	P - Papa
D - Delta	Q - Quebec
E - Echo	R - Romeo
F - Foxtrot	S - Sierra
G - Golf	T - Tango
H - Hotel	U - Uniform
I - India	V - Victor
J - Juliet	W - Whiskey
K - Kilo	X - X-ray
L - Lima	Y - Yankee
M - Mike	Z - Zulu

- Call Signs
 - **AB1OC** – Alpha Bravo One
Oscar Charlie
 - **MORCN** – Mike Zero Radio
Charlie November
- Names
 - **Fred** – Foxtrot Romeo Echo
Delta
- Can you spell your first name using the Phonetic Alphabet?

Let's Listen Again

A Real Amateur Radio Contact

[Link to Video](#)



- How did **AB1OC** call **CQ**?
- What were the signal reports that were sent by **AB1OC** and **M0RCN**?
- What other **Q-signals** were used and what did they mean?

A DXpedition – Activating a Rare Island

[Link to Video](#)

A Pileup – Many Stations Calling



- What was the call sign of the DX station? What was meant by “Up 5”?
- What is unique about the frequencies being used by the stations in the pileup?
- Can you make a list of all the stations that call the DX?
- What was the minimum information that each station gave the DX?

Where Are Hams Around The World?

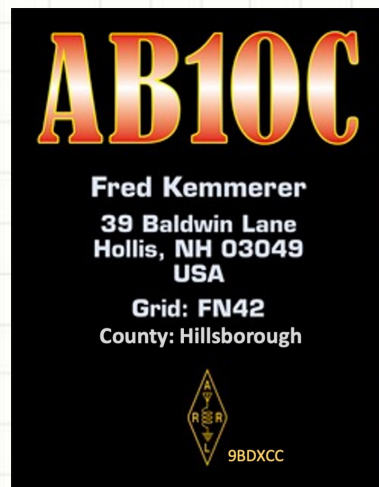
[Link to Video](#)

Who can we talk to?



- The video shows contacts made from our station here in New Hampshire.
- Each Red star is a different Amateur Radio Station.
- What parts of the world have the most Ham Radio Stations?
- What parts of the world would be the most interesting to talk to?

Live On-Air Experience from AB1OC-AB1QB



- **Antennas**

- 100 ft Rohn 55G Guyed Tower
- Stacked SteppIR DB36 Yagis
- 160m – 6m, 2m, 70cm, 23cm
- Stacked LFA Yagis for 6m
- EME and Satellite Arrays
- Directional low-band receive antennas

See
stationproject.blog
for details

- **Shack**

- Multi-One Contesting and DX'ing Station (323 confirmed, 9B DXCC, VUCC on 6m, 2m, and Satellite)
- Each operator has 2-radios (SO2R)
- All Radios are QRO Operation (1500w)
- Antenna selection and remote operation via Internet



Questions?

To Learn More:

Check out the Nashua Area Radio Society's Tech Night Program at:

n1fd.org/tech-night

Become an Internet Subscriber (or members of NARS):

n1fd.org/join-us

Much more information, pictures and video are available on our Blog at:

stationproject.blog



AB10C Virtual Station Tour

- Antennas
 - [Main Tower](#)
 - [Satellite Tower](#)
 - [EME Tower](#)
- Shack
 - [Shack Tour](#)
 - [Satellite Station](#)
 - [Space Comms Area \(EME\)](#)
 - [Amateur Television](#)
 - [Remote \(Internet\) Operating Gateway](#)
- [Mobile HF Station](#)

