Copying BULLETINS

NFARC / ARES[®] Tech Nite June 2024

Bulletins

- Bulletins may be issued by local authorities to provide information or instructions
- Addressed to large group of people
- Often issued in voice
- May also be issued as "text" better for detailed informations such as locations, etc.

Amateur Radio Bulletins

- ARRL issues bulletins frequently
- Allows practice at copying bulletins
- Issued on standard frequencies and times
- Voice, CW and multiple digital techniques

Data Techniques

- Because digital techniques on single side band enjoy a HUGE signal-to-noise advantage, DATA on HF is easier to copy than voice.
- (This is not true for FM voice has same advantage as data over FM)

1-to-Many

- Digital techniques used are "broadcast" techniques
- NOT ARQ (acknowledge/request) so more difficult to get error-free copy
- Typical techniques include PSK31, RTTY (Baudot) and MFSK-16. SHARES uses MT63-1K-Long (which may be easier to copy without an electrical connection.)

FLDGI

- Basic FLDGI (free) works FINE to copy these bulletins, whether on HF (single side band) or even on VHF/UHF FM.
- FLDGI offers DOZENS of techniques.
- Two major obstacles:
 - Getting correct frequency
 - Getting correct modulation technique



Getting Correct Frequency

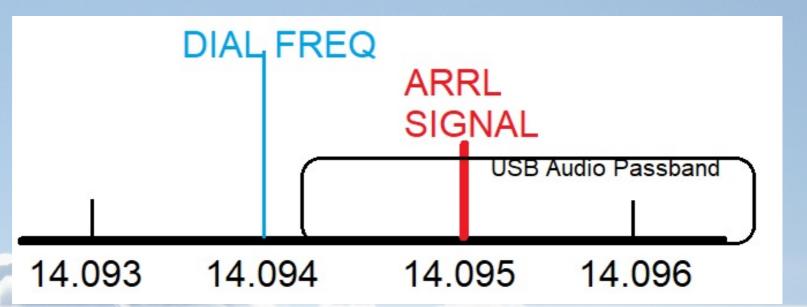
- ARRL publishes their "center" frequency, not their "dial" frequency – because their bulletins can be received lots of different ways. (Different from voice bulletins)
- It is traditional to use UPPER side band to receive, but some techniques actually don't care.

ARRL

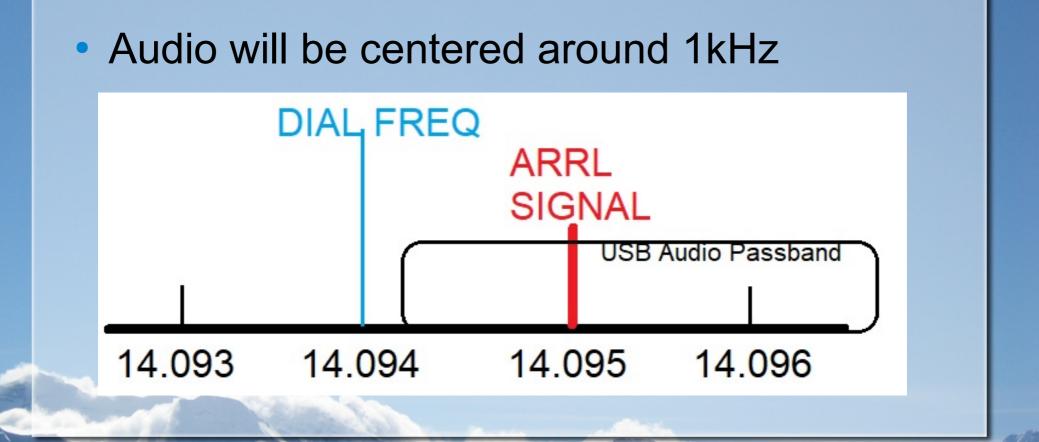
- Frequencies are 3.5975, 7.095, 14.095, 18.1025, 21.095, 28.095, 50350 kHz, and 147.555 MHz.
- Bulletins are sent at 45.45-baud Baudot, PSK31 in BPSK mode and MFSK16 in a daily, revolving schedule.
- The regular callup will be made using the mode that is transmitted first. The digital bulletin times remain at 6 PM and 9 PM Eastern Day;ight Time currently 2200 UTC and 0100 UTC, respectively daily

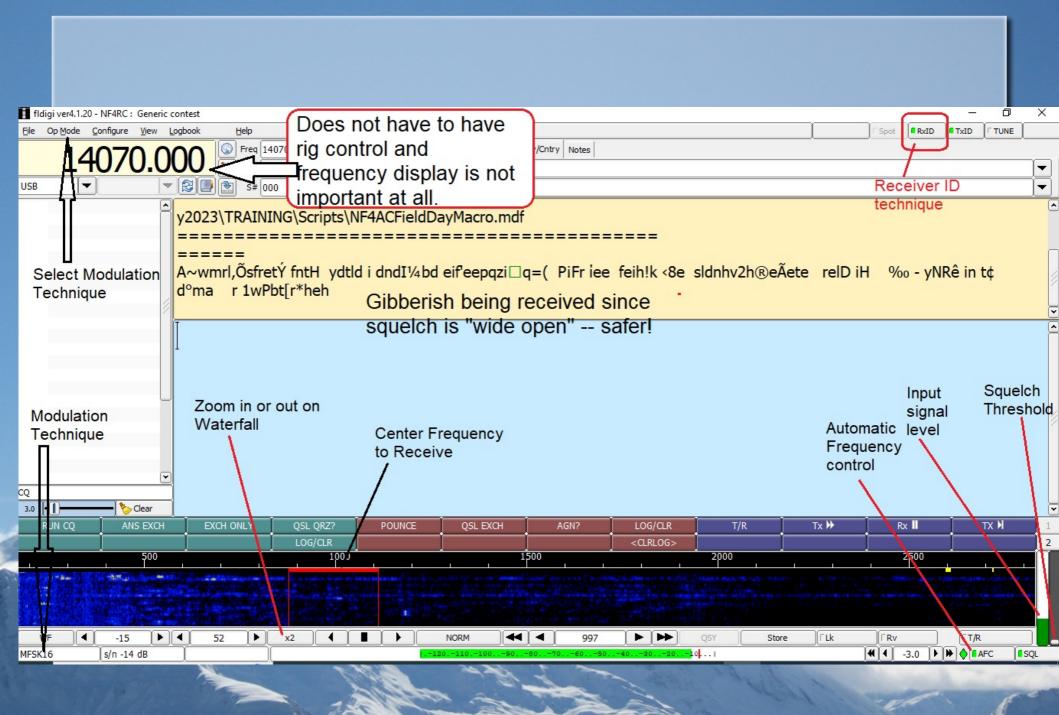
Receiving ARRL

• Typically 7.095 and 14.095 are the best frequencies in Alachua County at NIGHT.









Setting up SoundCard

- CONFIGURE | CONFIG DIALOG
- Soundcard | Devices

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LIVE PRACTICE

- FREQUENCY
 - CENTER FREQ
 - DIAL FREQ (use 1kHz for the Audio)
- TECHNIQUE

