

# EAST VALLEY DIGITAL NET

3/10/2019

FREQUENCY: 145.550 MHZ, FM, 1500 HZ OFFSET (145.551.500 mhz)

## STATIONS:

AG7GK – NCS

K7WZX – GARY

KD7OBD – BRENT

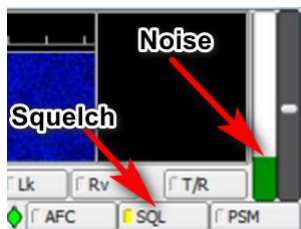
K7ZAE – HEIDI

## Report

We had four stations checked in tonight, no problems were immediately evident as we've had previously issues with the transmission offset, weak signals, and no audio when PTT occurs. So we're making progress in stabilizing our equipment. AG7GK was running a new dedicated VHF only rig the FT2980R hooked to a raspberry pi via Signalink interface, had no problems with any of the stations or modes. We had some weak signals reported from K7WZX by other stations and he bumped up his power to 50 watts and all stations had good copy reported.

## Lessons Learned

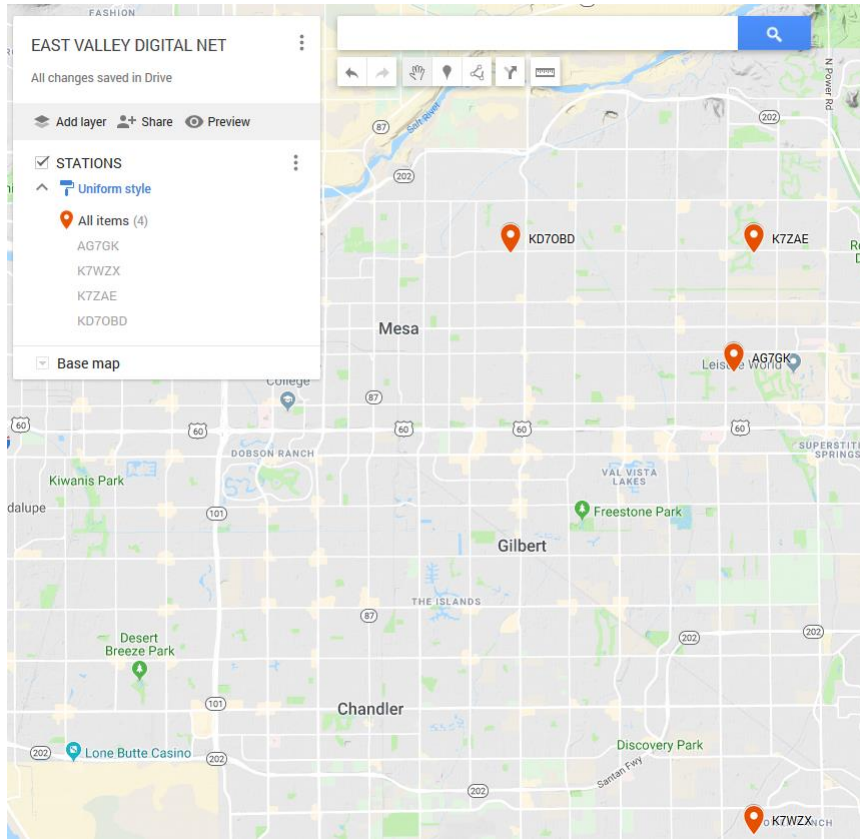
We had some discussion on the use of digital squelch vs radio squelch. AG7GK and K7WZX both use open squelch on the radio and let FLDIGI manage the squelch digitally. To enable that click the "SQL" button in the lower right of FLDIGI and then move the squelch slider up above the bouncing green noise line.



We tried a multi-psk mode, PSK125RC4 but that was not heard by one of the stations, or rather heard but not decoded. I have played with various modes between the windows FLDIGI and the Raspberry PI station and the PI station does not do well with 8psk, Multi-PSK of 250 or greater bandwidths, and MT63. Anyway, more practice with different modes will be interesting when we have folks from diverse locations.

# MAP OF STATIONS

We had a solid 12 miles between furthest stations, not bad for VHF in the city.



# Net Artifacts:

Image transfer from K7WZX – MFSK64

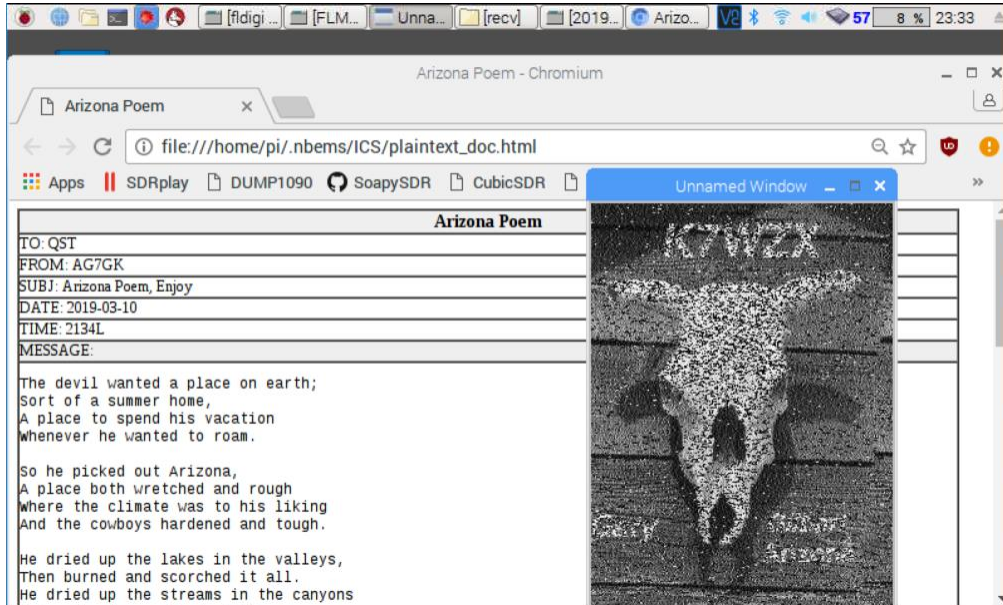
Receiving station: AG7GK – COMET GP3, ICOM IC-7100

The screenshot displays a VNC viewer window titled 'AJONESWSJTX (AJONESWSJTX) - VNC Viewer'. Inside, there are several overlapping windows from a radio software application:

- Top Window (IC-7100):** Shows a frequency display of 145550.000. It includes controls for mode (FM), SQL (65), and Mic (35).
- Middle Window (fdigi ver4.0.18 / IC-7100 - AG7GK):** Displays the same frequency and call signs: K7WZX, K7ZAE, KD7OBD. It features a control panel with various radio functions like QSO, ANS, and TX.
- Text Window:** Contains a message from AG7GK to K7WZX. The message reads:  
"I'll turn it over to K7WZX and then K7ZAE for final comments, or farewells."  
"de AG7GK k  
ISR o0SRU3ceaaA+h t3GI--OR t  
Before RSID: <<2019-03-11T04:44Z MFSK-64 @ 145550000 +1500>>  
f00ST  
"  
AG7GK de K7WZX  
OK Arron was a good night... maybe next time I will be more used to this keyboard. I have not used laptop for comms before and keep getting wrong keys ....  
I will work on msgs for you and Heidi... and I WILL have two or three ant's set up that I can switch to to see what I can do at the end to better copy and send.  
Both of you have a good week and take care best of 73 es on K7zae and ag7gk de k7w5e#et'e o+ ebCtateew(U) [e:eeyt#] oko3# uf0h tceb56cht3TR oi-> Fq tt
- Image Window:** Shows a black and white photograph of a cow skull. The text 'K7WZX' is at the top, and 'Gary Gilbert Arizona' is at the bottom.
- Bottom Window:** Shows a waterfall display with a frequency range from 1500 to 2500. Below it are various status indicators like 'MFSK64', 's/n -15 dB', and 'NOT CONNECTED'.

Receiving Station: AG7GK-2, VHF DIPOLE, FT-9850R, Raspberry PI

Note the poorer reception on the image as compared to the other radio and antenna, attribute this to a 15dB loss due to the poor VHF dipole I was using on this station. Replacing with a copper j-pole that has worked very well in the past. Will be interesting to compare the COMET GP3 to the Jpole.



The screenshot shows a Chromium browser window with the following details:

- Address bar: file:///home/pi/.nbems/ICS/plaintext\_doc.html
- Page title: Arizona Poem
- Taskbar: SDRplay, DUMP1090, SoapySDR, CubicSDR, Unnamed Window
- Email header:
  - TO: QST
  - FROM: AG7GK
  - SUBJ: Arizona Poem, Enjoy
  - DATE: 2019-03-10
  - TIME: 2134L
  - MESSAGE:
- Email body text:

The devil wanted a place on earth;  
Sort of a summer home,  
A place to spend his vacation  
Whenever he wanted to roam.

So he picked out Arizona,  
A place both wretched and rough  
Where the climate was to his liking  
And the cowboys hardened and tough.

He dried up the lakes in the valleys,  
Then burned and scorched it all.  
He dried up the streams in the canyons
- Image: A map of Arizona that is almost completely obscured by heavy digital noise, making it difficult to discern the state's outline.