

# AARC

## Field Day

Jun 24-25 2023



# GOTA

GET  
ON



THE  
AIR

# FIELD DAY

Jeff Schmidt N5MNW  
AARC Mtg 6 June'23



1916

2023

AARC

107 YEARS

AUSTIN AMATEUR RADIO CLUB

W5KA/K5LBJ opening ceremony 1300  
Seeking Willing Volunteers  
to flip totally-safe "ON THE AIR" switch





# AARC's Facebook page to be used to communicate what/when/where

## facebook

ON THE AIR  
W5KA/K5LBJ



**The Austin Amateur Radio Club, Inc.**  
Non-Profit Organization

FLEX-6500  
Signature Series

LIMITED EDITION



# QSL card design- JP KG5ZZB



**W5KA W5TQ**  
**W50EM**  
**TEXAS**  
**TEXAS**

AUSTIN AMATEUR RADIO CLUB

P0 Box 4739, Austin TX 78765

*Keeping Austin Wireless since 1919*

CONFIRMING QSO WITH	DATE			UTC	MHZ	RST	MODE 2-WAY
	DAY	MONTH	YEAR				

100th Anniversary Special Edition QSL Card

# FD station classifications

3 | A | STX

- Number of Main HF transmitters (3)

- A= Club at temporary location (AARC At Red Cross)

- B= 1-2 Person Portable

- C= Mobile Station

- D= Home Station w/ Commercial power

- E= Home Station w/ Emergency power

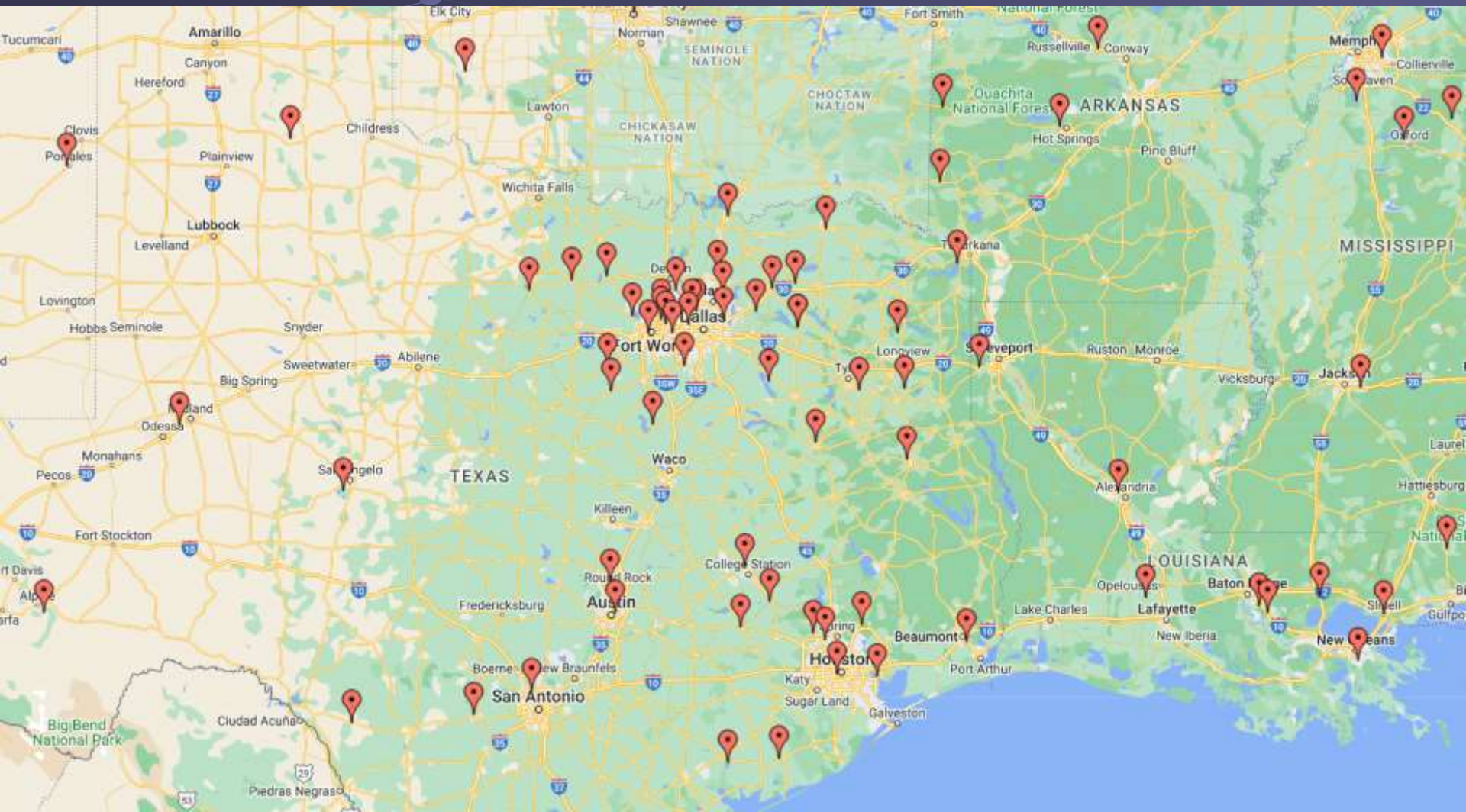
- F= Emergency Operations Center

- ARRL Section (STX - South Texas)



# ARRL's Field Day Locator page:

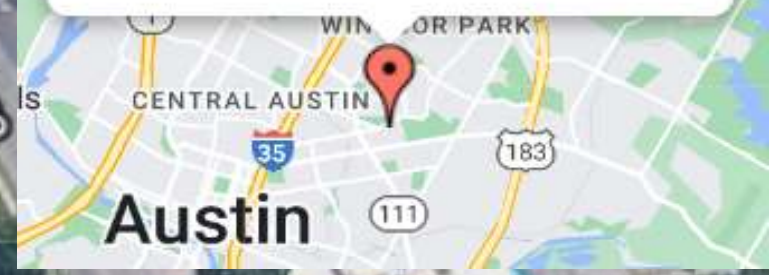
[www.arrl.org/field-day-locator](http://www.arrl.org/field-day-locator)







W5KA  
Austin Amateur Radio Club  
2218 Pershing Drive. Austin, TX 78723  
Austin, TX  
**GOTA:** YES  
**Talk-in:** 146.940(-)PL107.2  
**Contact:** Jeff Schmidt  
512-632-6673  
n5mnw@arrl.net  
www.AustinHams.org



**W5KA**  
American Red Cross

# Broadband Hamnet Group-

## Awesome IT Support

802.11 2.4GHz Wireless MESH Network

Database Support of N3FJP FD Logging Software

Paul KD5VRU again has stepped up!





# N3FJP Logging Software

<https://www.n3fjp.com/fieldday.html>





# WSJT-X FT8/Digi Software

<https://wsjt.sourceforge.io/wsjt.html>

The screenshot displays the WSJT-X software interface. At the top is a waterfall plot showing frequency activity from 500 to 3000 Hz. Below the plot are control panels for Bins/Pixel (4), Start (100 Hz), Split (2500 Hz), N Avg (2), Palette (Adjust...), Flatten (checked), Ref Spec (unchecked), Digipan, Cumulative, Spec (35%), and Smooth (1). The main window title is "WSJT-X v2.6.0 by K1UT et al." with a menu bar including File, Configurations, View, Mode, Decode, Save, Tools, and Help.

Two message logs are visible:

Band Activity			
UTC	dB	DT Freq	Message
131330	6	-2.2 2562	UV11 F5SJH IN87
131330	-13	0.1 1763	CQ F4JGI IN94 France
131330	-14	0.1 2735	HS8AFA HZ15F LL34
131330	-6	0.2 2149	CQ SA0POW J099 Sweden
131330	-2	0.1 1448	CQ UR5UX K050 Ukraine
131330	-13	0.2 1954	SV1GSP BX5AA RR73 Taiwan
131330	-14	0.1 452	CQ DX F4HRG IN87 France
131330	-13	0.1 1077	N3IZ EA7LU -05
131330	-10	-0.9 808	C6AGU F4HRU JN07
131330	-11	0.1 2624	UA6AHR DF1KW R+10
131330	-19	0.1 2716	OE5EIN OV1T -09
131330	-16	0.3 1980	PD2GCM G3DR -10
131330	-16	0.0 484	IZ8PPI F5RMK 73 France
131330	-13	0.1 550	DL2BS HA1VG JN87
131330	-17	0.1 543	N0FW PD2SHB J021
131330	-21	-0.0 2091	CQ E4EAS IN70 a7 Spain
131330	-5	-0.2 1129	CQ R78L LN05 a7 EU Russia
----- 20m -----			
131345	7	0.1 2416	CQ ES1KK K029 Estonia
131345	6	0.2 1137	F6ARS HA3PT R+14
131345	6	-0.1 2680	RC1BP <UE23NY> -12
131345	16	0.2 1897	VU2RS LY3AB K005
131345	2	0.1 2624	DF1KW UA6AHR RR73 EU Russia
131345	2	0.2 1215	YC1LIN SV1FA KM18
131345	3	0.4 1084	DK1AN EA3IGB -05
131345	2	0.1 2251	E74K YO2NAA KN05
131345	5	0.2 648	CQ DX LA6ZFA J059 Norway

Rx Frequency			
UTC	dB	DT Freq	Message
131030	-13	0.1 1584	JE6WKY DU3CQ RR73 Philippines
131055	Tx	2242	DU3CQ DG2YCB J042
131130	-14	-0.1 1574	C6AGU DL6ZFG -18
131130	-17	0.2 1584	JK3DJX DU3CQ -14
131200	-18	0.4 1584	JK3DJX DU3CQ RR73 Philippines
131200	-18	-0.1 1574	C6AGU DL6ZFG -18
131230	-11	-0.1 1574	C6AGU DL6ZFG -18
131230	-18	0.2 1585	CQ DU3CQ PK04 Philippines
131245	-18	0.8 1575	N9TF C6AGU 73 Bahamas
131330	-20	0.1 1585	VR2ZDA DU3CQ -09

Control panels at the bottom include: CQ only, Log QSO, Stop, Monitor (green), Erase, Decode (blue), Enable Tx, Halt Tx, Tune, and Menus (checked). A large display shows "20m" and "14,074 000". Other controls include Tx even/1st, Hold Tx Freq, Tx 2160 Hz, Rx 1584 Hz, Report -13, Auto Seq, and CQ: None. A "Generate Std Msgs" panel lists messages like "DU3CQ DG2YCB J042" and "DU3CQ DG2YCB -13". A "Next Now Pwr" panel shows "Tx 1" selected. A date/time display shows "2022 Dez 29 13:13:57". The bottom status bar indicates "Receiving", "DG2YCB", "FT8", "13", "12/15", and "WD:3m".





# Hoping to see some of this!

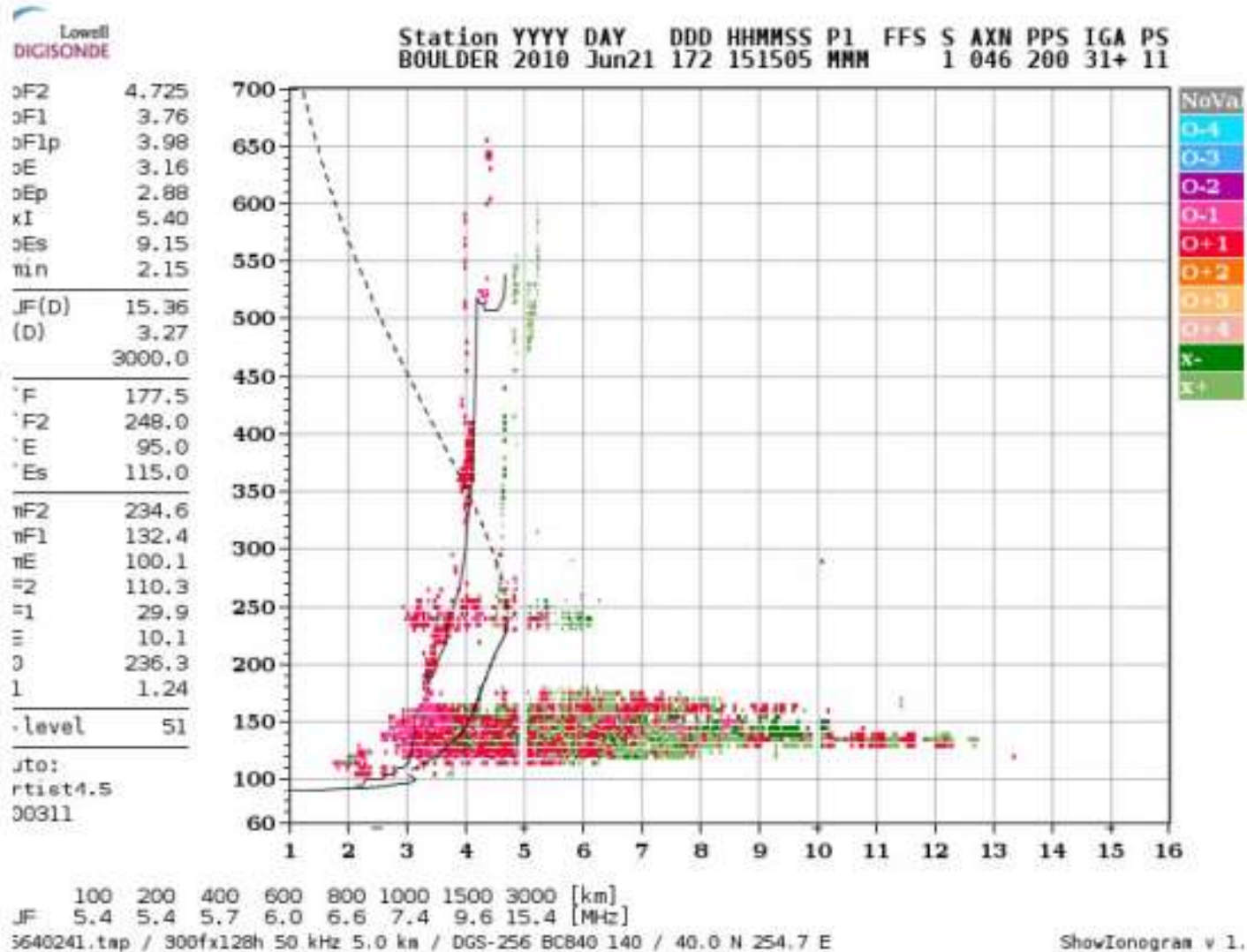


Figure 5. Ionogram from Boulder Colorado on 21 June 2010 measured by a Digisonde which shows the strong sporadic-E layer around the 100 km altitude (<https://ulcar.uml.edu/DIDBase/>).



# Or This...



Statio YYYY DAY DDD HHMMSS P1 FFS S AXH PPS IGA PS  
 Austin 2023 Jun06 157 025505 MMM 1 045 100 33+ A1

foF2 7.600  
 foF1 N/A  
 foFlp N/A  
 foE N/A  
 foEp 0.47  
 fxI 8.40  
 foEs 4.70  
 fmin 1.40

MUF(D) 21.46  
 M(D) 2.82  
 D 3000.0

h'F 248.0  
 h'F2 N/A  
 h'E N/A  
 h'Es 91.0

hmF2 335.8  
 hmF1 N/A  
 hmE 110.0  
 yF2 94.4  
 yF1 N/A  
 yE 20.0  
 B0 88.0  
 B1 2.76

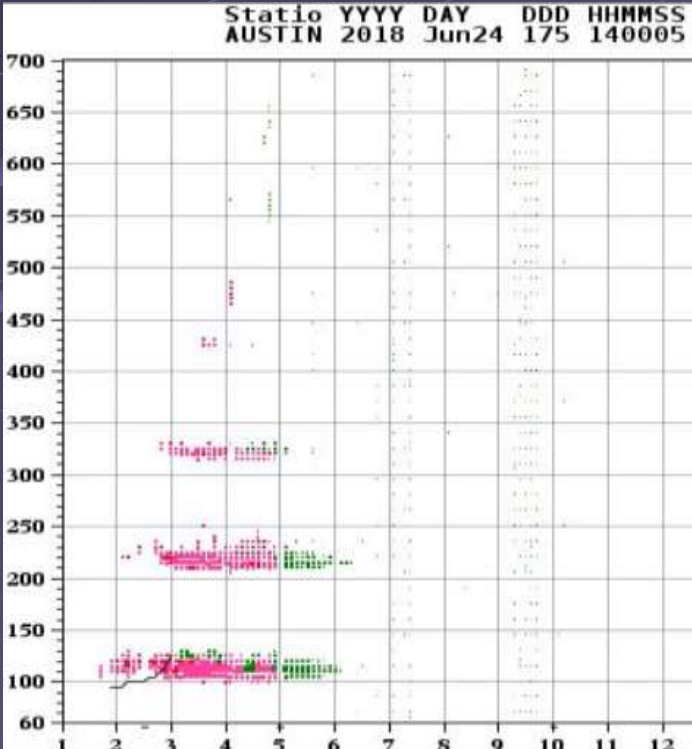
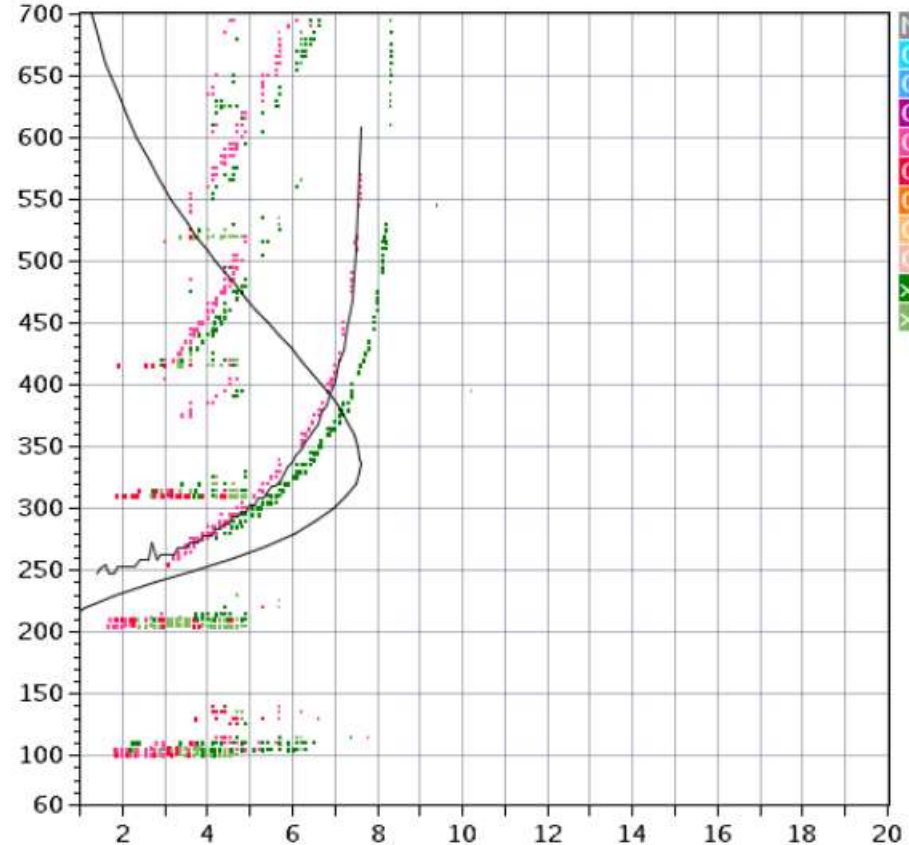
C-level 11

Auto:  
 Artist4.5  
 200311

D 100 200 400 600 800 1000 1500 3000 [km]  
 MUF 8.2 8.3 8.6 9.1 9.8 10.8 13.8 21.5 [MHz]

AU930\_2023157025505.MMM / 190fx120h 100 kHz 5.0 km / DGS-256 AU930 130 / 30.4 H 262.3 E

IonCPng v. 1.3.11



Statio YYYY DAY DDD HHMMSS  
 AUSTIN 2018 Jun24 175 140005

# N5M1NW



A legend in his  
own mind...





# Trailer Mounted 25G Foldover (6m-VHF-UHF/ High-band HF Station)









# Main FT-8 Station

(All Band capable but 15,10, 6m focus)



# IC-7100

# ICOM



# Main HF-6m SSB rig ICOM IC-7300





# Main 2m/70cm SSB rig ICOM IC-9700



For all the excellent pics  
stolen from the following:

Thanks to Mark W5MPJ, JP KG5ZZB, Ronnie  
KC5EES,

And any others who may have contributed!



It can be –crowded- !



# Larry WB2MZY filling the log!

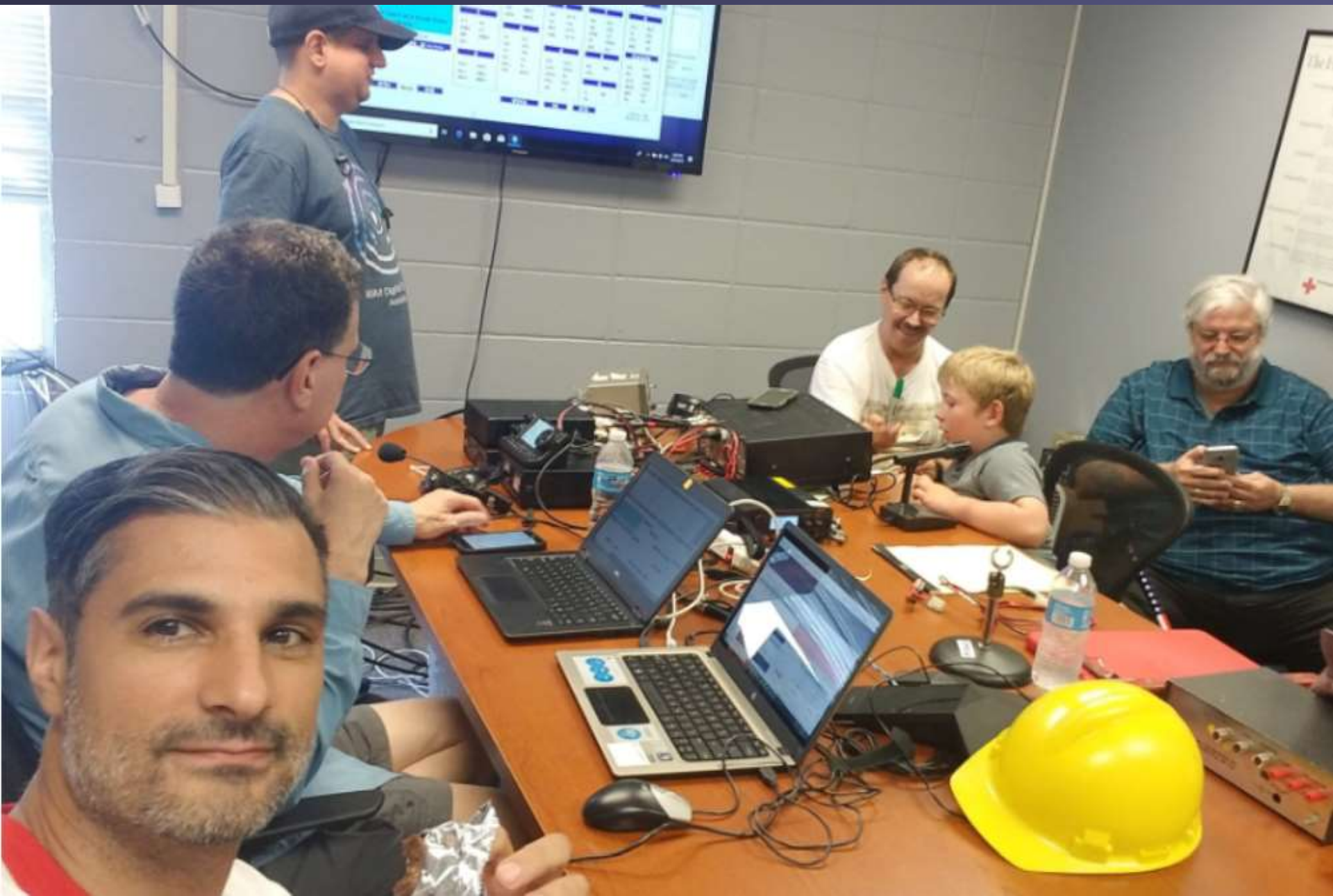




# Stu K5KVH and friends

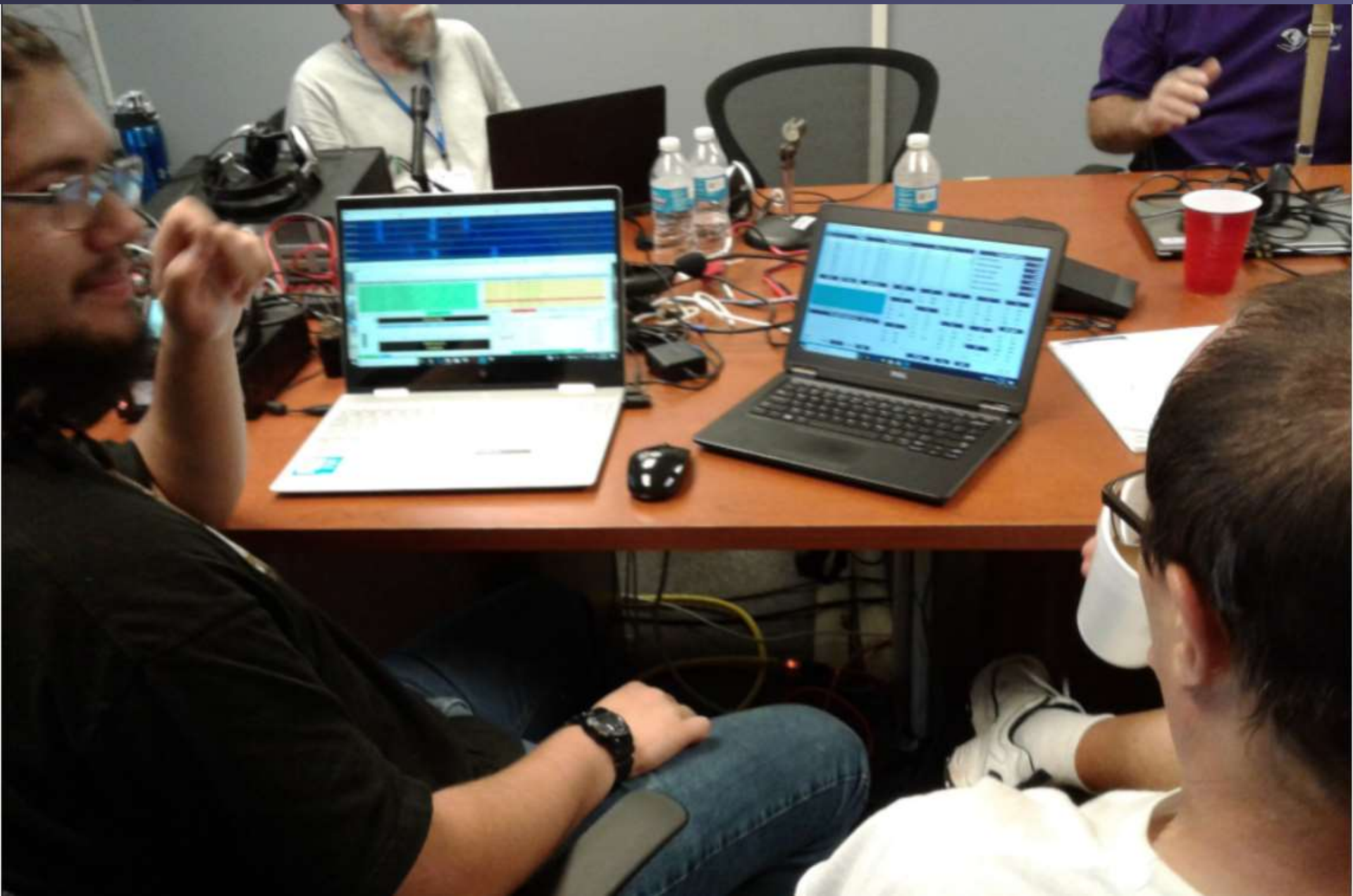


# JP KG5ZZB & others at FT8 & VHF





# Ryan KC3JHO and MNW at FT-8



# K5LBJ(GOTA) Coach Ronny Risinger KC5EES



"Field Day"  
Austin Amateur Radio Club  
June 23-24, 2018



# Lew W5IFQ at the GOTA station



# Ryan KC3JHO at GOTA





# TCARES Trailer: A/C Power, HF Voice & Digital, “Talk-In” NCS



Pete K5GM  
King of CW!!





# Practical Application Demos

RF Effects in Coax

Soldering RF connectors

Measuring Coaxial cable loss

Hands-On E/M demos

# Questions?

🌐 I'm Sure I Missed Something...