

# AARC

## Field Day

Jun 22-23 2024



# GOTA

GET  
ON



THE  
AIR

# FIELD DAY

Jeff Schmidt N5MNW  
AARC Mtg 4 June'24



1916

2024

AARC

108 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

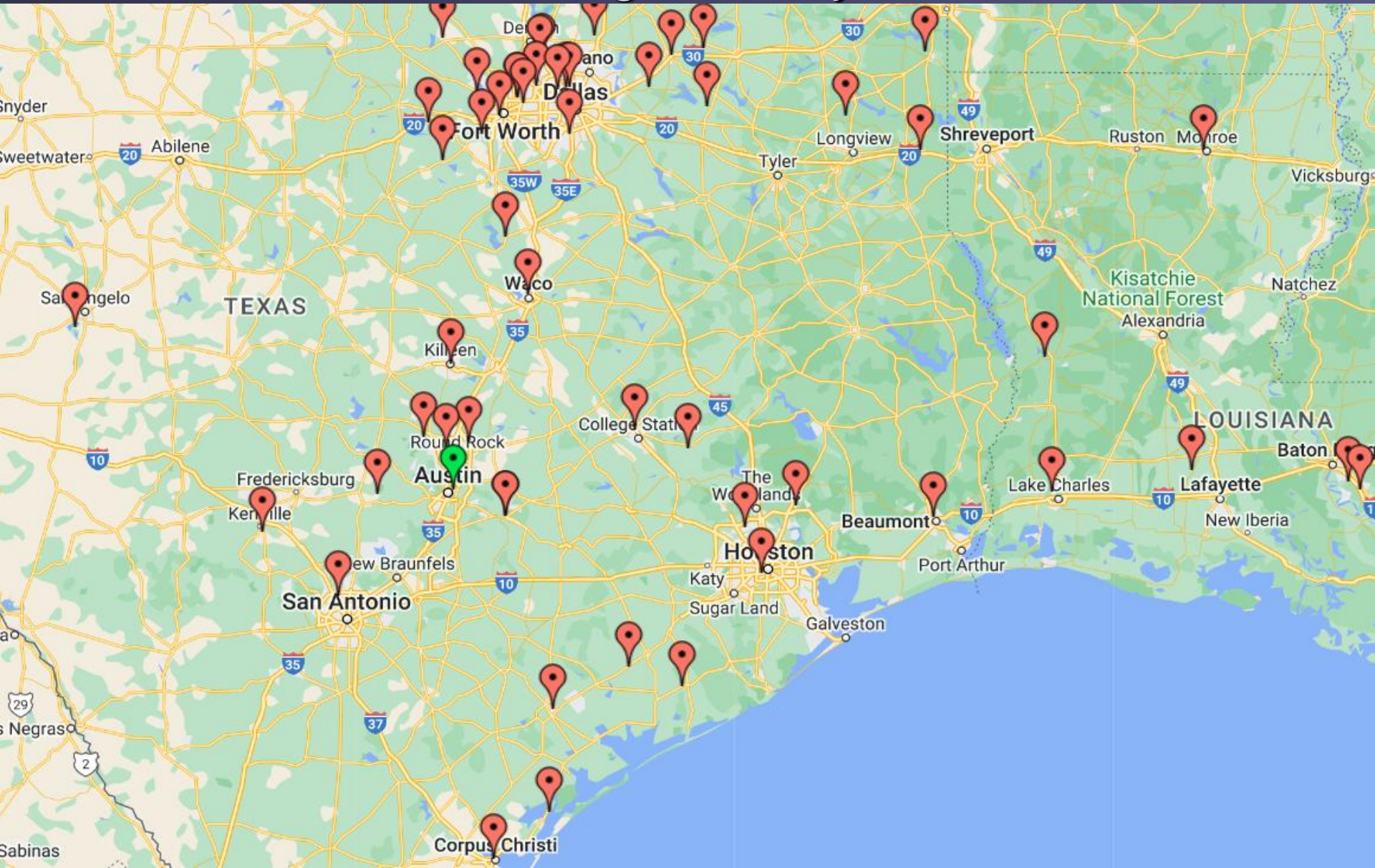
- F= Emergency Operations Center

- ARRL Section (STX - South Texas)



# ARRL's Field Day Locator page:

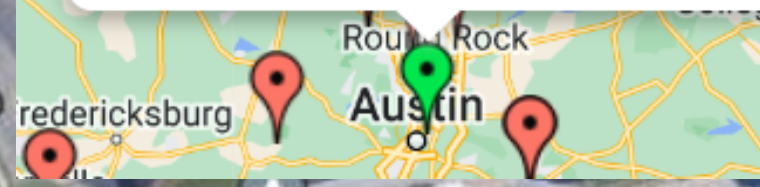
[www.arrl.org/field-day-locator](http://www.arrl.org/field-day-locator)







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>

**WSJT-X - Wide Graph**

Controls: 500 1000 1500 2000 2500 3000

13:13:45 20m  
13:13:30 20m  
13:13:15 20m

Bins/Pixel 4 Start 100 Hz Palette Adjust... Flatten Ref Spec Spec 35 %  
Split 2500 Hz N Avg 2 Digipan Cumulative Smooth 1

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**WSJT-X v2.6.0 by K1JT et al.**

File Configurations View Mode Decode Save Tools Help

**Band Activity**

UTC	dB	DT	Freq	Message
131330	6	-2.2	2562	UV1T F5SJR IN87
131330	-13	0.1	1763	CQ F4JGI IN94 France
131330	-14	0.1	2735	HS8AFA HZ1SF 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	-18	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 EA1EAS IN70 a7 Spain
131330	-5	-0.2	1129	CQ R7BL LN06 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	0.1	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

CQ only Log QSO Stop Monitor Erase Decode Enable Tx Halt Tx Tune  Menus

20m **S** **14,074 000** Tx even/1st  Hold Tx Freq  
Tx 2160 Hz  
▲ ▼  
Rx 1584 Hz  
Report -13  
 Auto Seq CQ: None

H DX Call DX Grid  
FT8 DU3CQ  
FT4  
MSK Lookup Add  
Q65  
JT65

2022 Dez 29  
13:13:57

Generate Std Msgs Next Now Pwr  
DU3CQ DG2YCB J042 Tx 1  
DU3CQ DG2YCB -13 Tx 2  
DU3CQ DG2YCB R-13 Tx 3  
DU3CQ DG2YCB RR73 Tx 4  
DU3CQ DG2YCB 73 Tx 5  
CQ DG2YCB J042 Tx 6

Receiving DG2YCB FT8 13 12/15 WD:3m

# Hoping for lots of 15, 10 & 6m FT8!

The screenshot displays the WSJT-X v2.0.1 software interface. At the top, a waterfall plot shows frequency from 1000 to 3000 kHz. Below the plot, the 'Band Activity' window is open, showing a log of activity with columns for UTC, dB, DT, Freq, and Message. The log is split into two panes: the left pane shows received activity (green background) and the right pane shows transmitted activity (yellow background). The transmitted activity log is highlighted in red, showing a list of transmissions from WSKA stations. Below the log, the 'Tx' window is visible, showing the current frequency (50.313 000) and the call sign (K4HCC). The 'Generate Std Msgs' window is also open, showing a list of standard messages for WSKA stations. The system tray at the bottom shows the date and time: 2019 Jun 23 14:38:41.

UTC	dB	DT	Freq	Message
143315	-5	0.4	1782	CQ DK K4MM RM10
143320	-13	0.4	1782	CQ ED K0STX RM10
143345	-5	0.4	1782	CQ DK K4MM RM10
143355	-3	0.4	1782	CQ DK K4MM RM10
143410	-12	0.4	1782	CQ ED W5KA RM10
143415	-5	0.4	1782	CQ DK K4MM RM10
143715	4	0.5	1782	CQ ED W5KA RM10
143745	-17	0.4	1782	CQ KU K0H2AC RM10
143745	4	0.5	1782	CQ KU K0H2AC RM10
143500	Tx	1782	-	W9KVA WSKA 4A STX
143530	Tx	1782	-	W9KVA WSKA 4A STX
143600	Tx	1782	-	W9KVA WSKA 4A STX
143630	Tx	1782	-	CQ ED W5KA RM10
143700	Tx	1782	-	CQ ED W5KA RM10
143715	-13	0.4	1782	WSKA K4HCC 1D STX
143730	Tx	1782	-	K0HCC WSKA R 4A STX
143800	Tx	1782	-	K0HCC WSKA R 4A STX
143830	Tx	1782	-	K0HCC WSKA R 4A STX

# Hoping to see some of this!

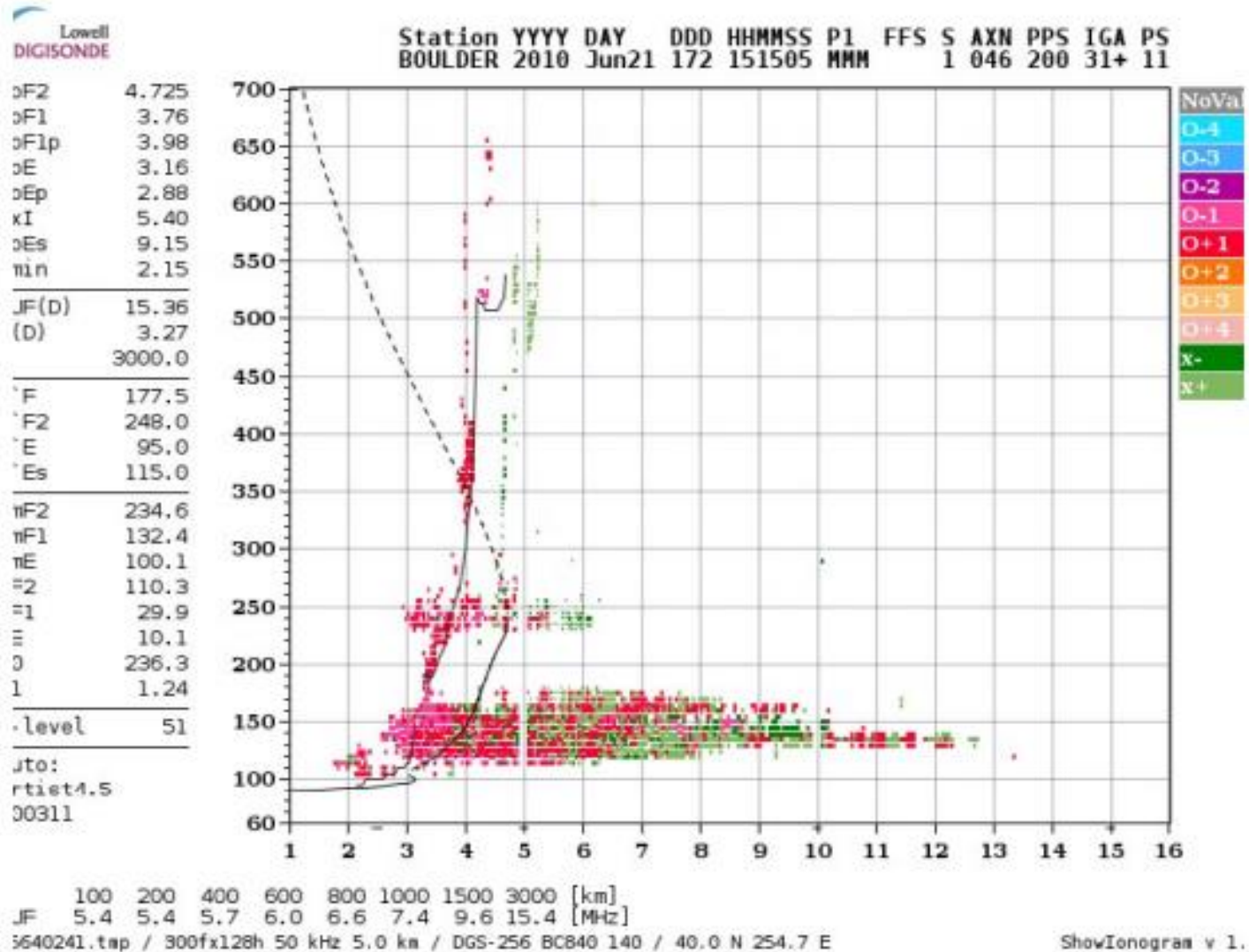


Figure 5. Ionogram from Boulder Colorado on 21 June 2010 measured by a Digisonde which shows the strong sporadic-E layer around the 100 km altitude (<https://ulcar.uml.edu/DIDBase/>).



# Or This...



Statio YYYY DAY DDD HHMMSS P1 FFS S AXN 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

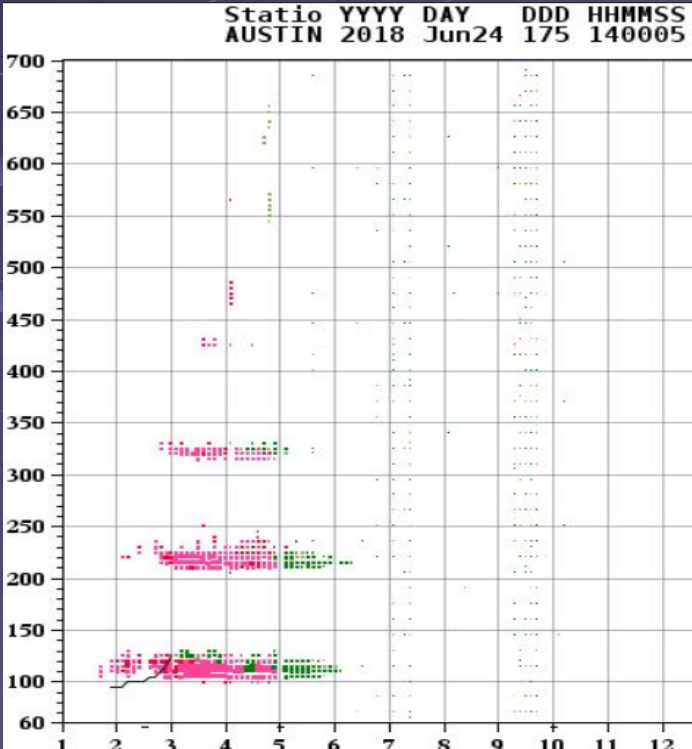
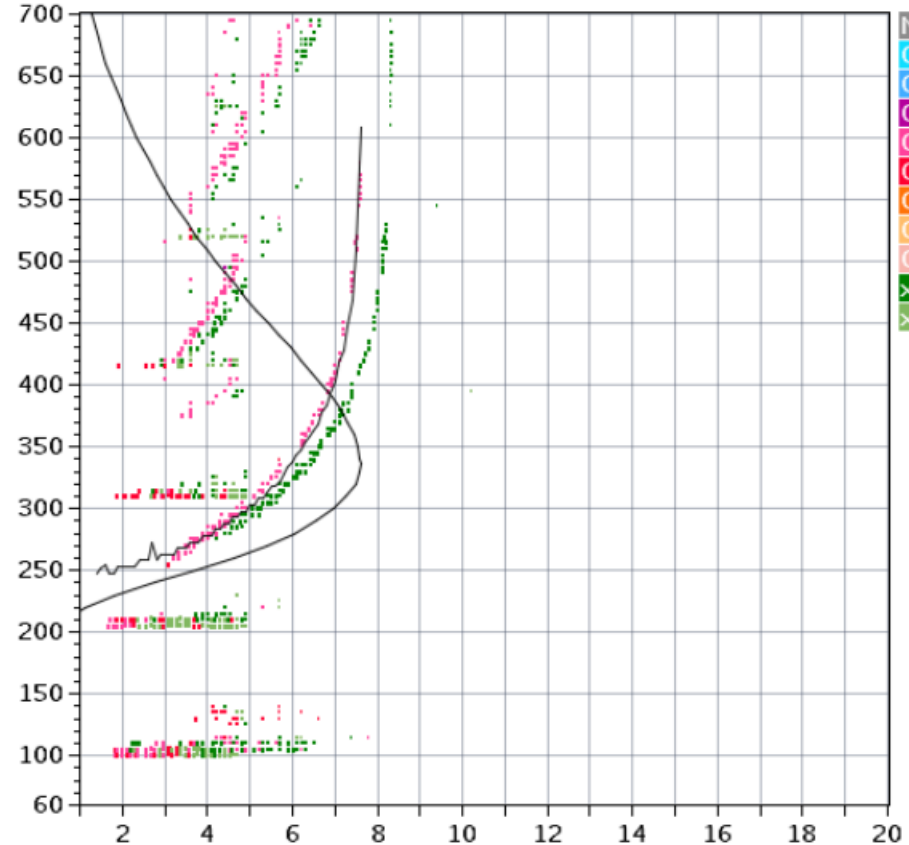
C-level 11

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

Ion2Png v. 1.3.11



Statio YYYY DAY DDD HHMMSS  
 AUSTIN 2018 Jun24 175 140005

# N5M1NW



A legend in his  
own mind...



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







# Main Voice & FT-8 Radios

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





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





It can be –crowded- !



# Lew W5IFQ at the GOTA station





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



# Practical Application Demos

RF Effects in Coax

Soldering RF connectors

Measuring Coaxial cable loss

Hands-On E/M demos



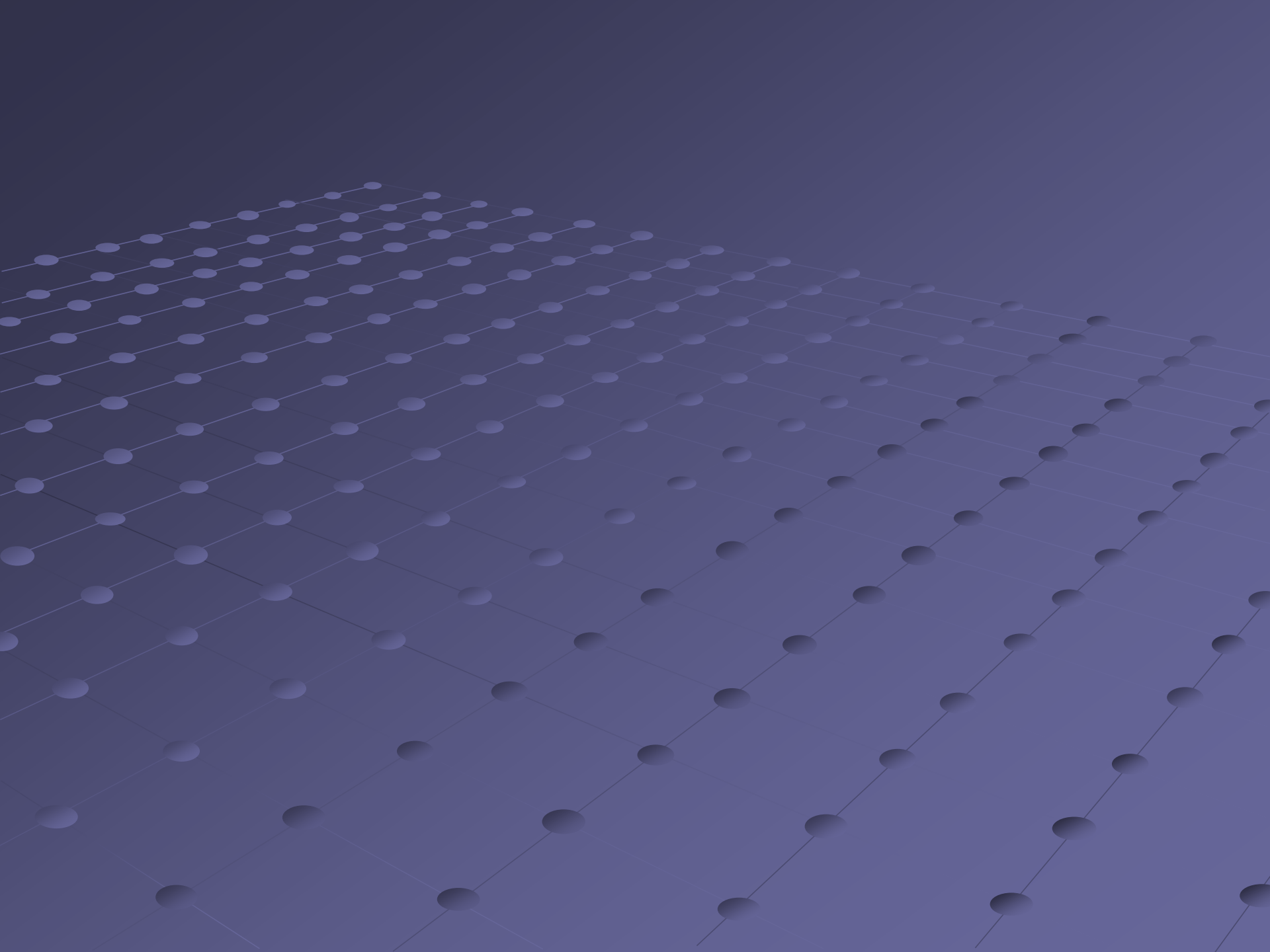
# Questions?

🌐 I'm Sure I Missed Something...



END





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





Pete K5GM  
King of CW!!

