



FIELD DAY 2024

Lew Thompson

W5IFQ

4 JUNE 2024

Purpose of Field Day

- Demonstrate the ability to set up an Amateur radio station in the field on emergency power and communicate effectively over all of CONUS.
- Increase public awareness of Amateur Radio
- Operator Training
- Recruitment of new hams
- Have fun



Austin Amateur
Radio Club

Serving our community since 1919.

Field Day 2024

When: 22 – 23 June, 1 PM Saturday till 1 PM Sunday

Where: Red Cross building – 2218 Pershing Ave.

Operations Details:

- **Four stations:**
 - **TCARES Emergency Trailer – HF Multi-mode + Emergency Power**
 - **HF/VHF/UHF Multi-mode building A**
 - **HF Multi-mode (CW, Digital, and SSB) building B**
 - **GOTA (Get on the Air) – HF SSB building B**
 - **Designation – 3A STX**
 - **Scoring – N3FJP Wireless Network**
 - **Operating spaces are air-conditioned!**
- **Meals**
 - **Saturday Lunch – Pizza**
 - **Saturday Evening – BBQ**
 - **Sunday Morning – Breakfast Tacos**

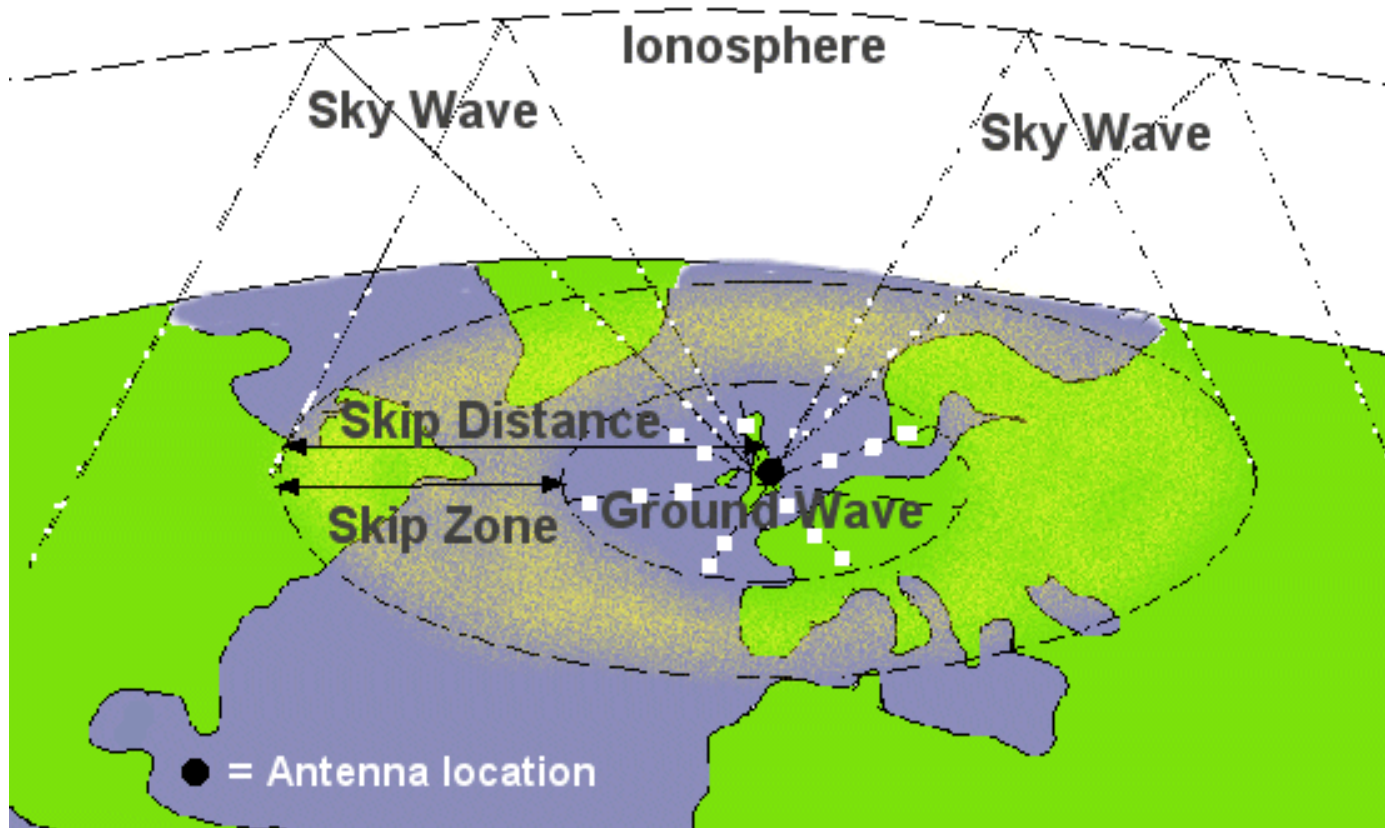
2024 FD Officials

- Glen W5MTR– TCARES Trailer Station Captain
- Jeff N5MNW – HF/VHF/UHF Station Captain
- Ronnie KC5EES – GOTA Station Captain
- Lew W5IFQ – CW Station Captain
- Mark W5MPJ
 - Meals coordinator
 - Field Day Safety Officer
- Paul KD5VRU – N3FJP Wireless Network

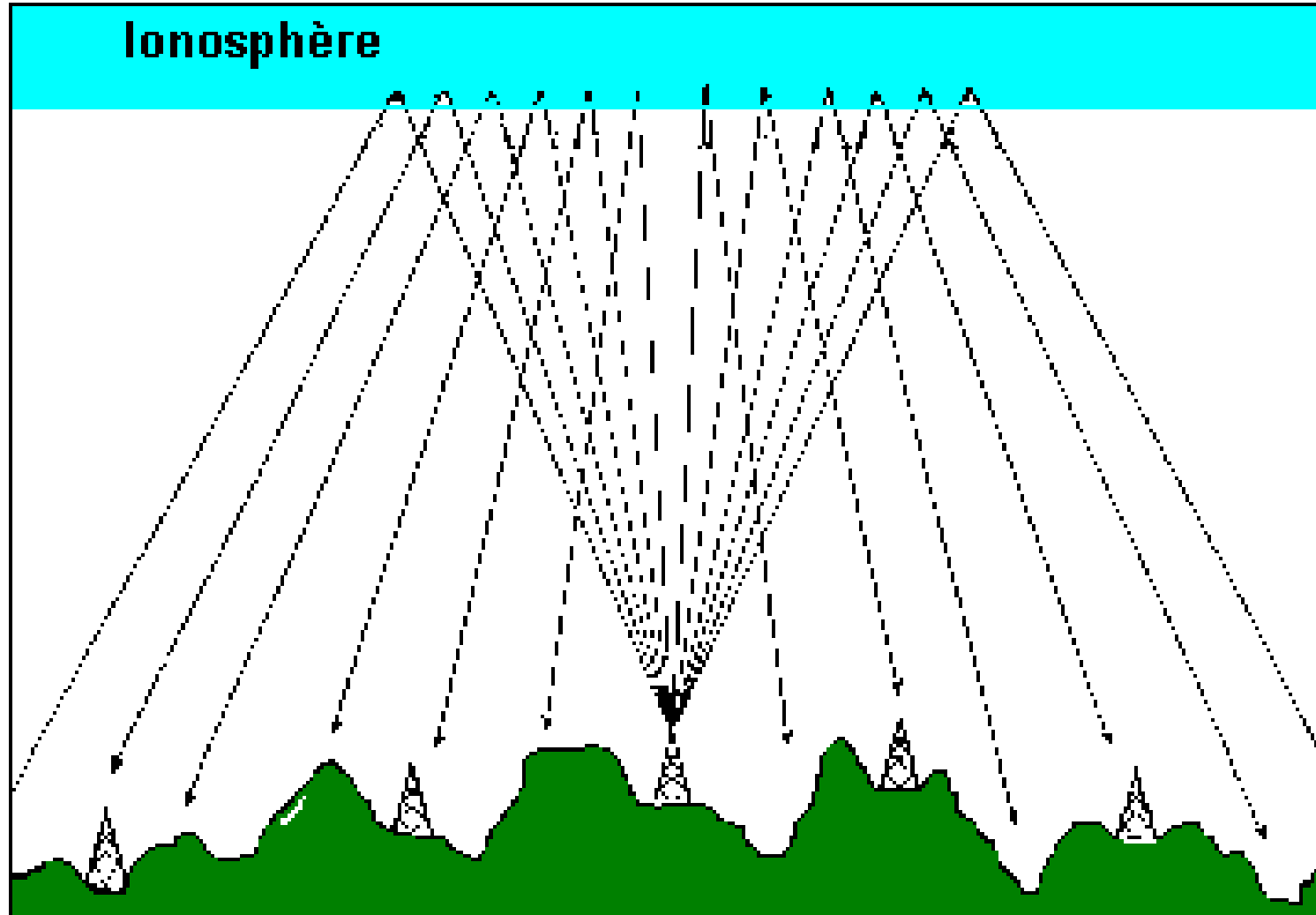
HF Propagation Modes

- Free Space – Line of site
- Ground Wave – Follows Earth's curvature
- Ionospheric Skip
 - Long Distance with a “dead-zone”
 - NVIS (Near Vertical Incidence Sky Wave)

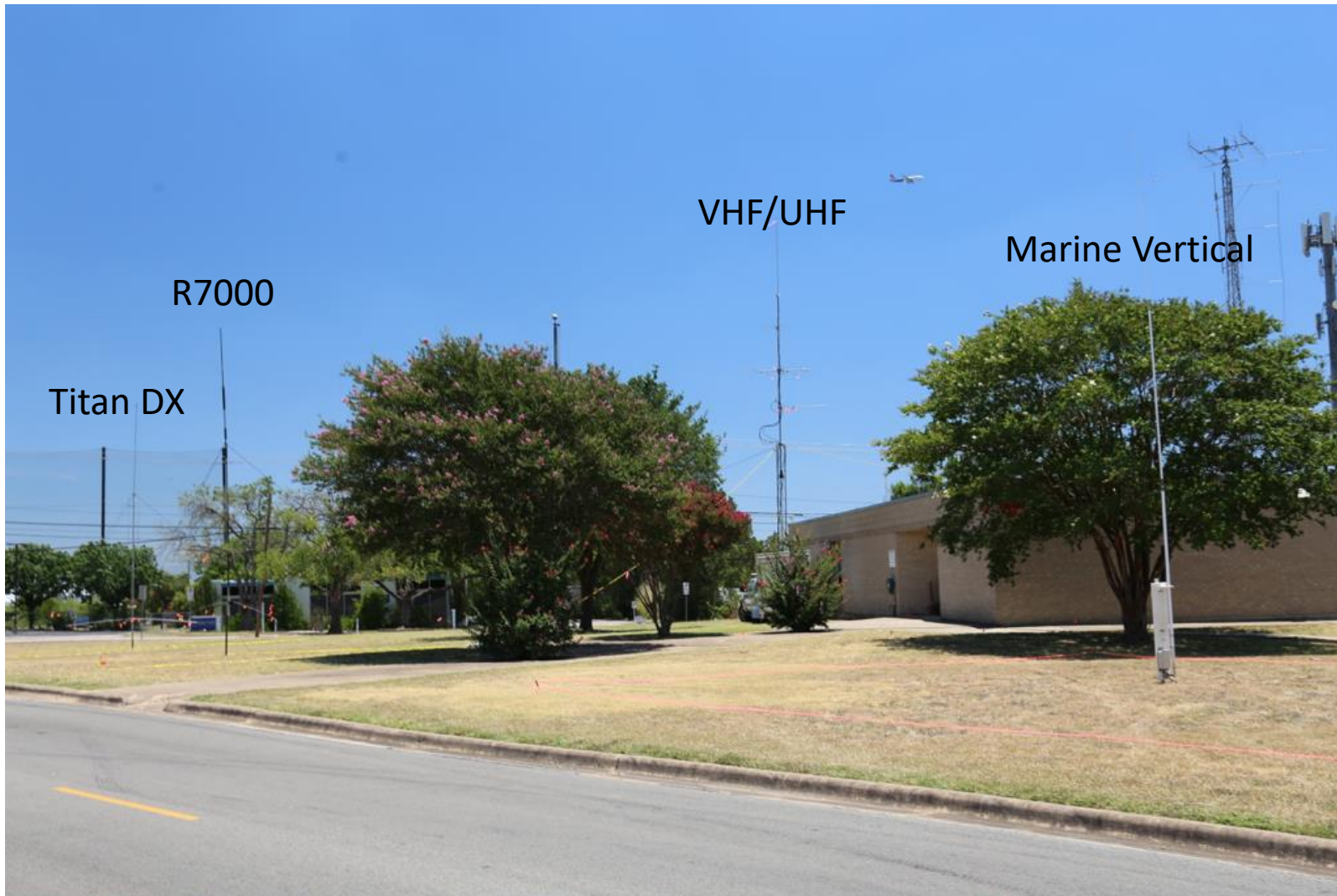
Long Distance Sky Wave



NVIS Propagation



Five FD Antenna Locations at Red Cross (TCARES Trailer Behind Building)



2023 FIELD DAY PICTURES

STATION OPERATIONS

ANTENNA INSTALLATIONS

CLASSES

MEALS

RESULTS

TCARES Communications Trailer

**HF Auto-Tuned
Dipole**

**12 KW Diesel
Generator**



TCARES Communications Trailer



TCARES Communications Trailer

THE AMERICAN RADIO RELAY LEAGUE RADIOGRAM VIA AMATEUR RADIO							
NUMBER 1	PRECEDENCE	HX R	STATION OF ORIGIN WSKA	CHECK	PLACE OF ORIGIN AUSTIN	TIME FILED 1830Z	DATE 24 JUN
TO TOMMY WRIGHT ntwright90@gmail.com TELEPHONE NUMBER					THIS RADIO MESSAGE WAS RECEIVED AT AMATEUR STATION _____ PHONE _____ NAME _____ STREET ADDRESS _____ CITY AND STATE _____		
Greetings	from	Field	Day	at			
Red	cross	building	73	Ref			
KBREX	and	TCARES					
REC'D	FROM	DATE	TIME	SENT	TO	DATE	TIME
<p>THIS MESSAGE WAS HANDLED FREE OF CHARGE BY A LICENSED AMATEUR RADIO OPERATOR, WHOSE ADDRESS IS SHOWN IN THE BOX AT RIGHT ABOVE. AS SUCH MESSAGES ARE HANDLED SOLELY FOR THE PLEASURE OF OPERATING, NO COMPENSATION CAN BE ACCEPTED BY A "HAM" OPERATOR. A RETURN MESSAGE MAY BE FILED WITH THE "HAM" DELIVERING THIS MESSAGE TO YOU. FURTHER INFORMATION ON AMATEUR RADIO MAY BE OBTAINED FROM A.R.R.L. HEAD-QUARTERS, 225 MAIN STREET, NEWINGTON, CONN. 06111</p>				<p>THE AMERICAN RADIO RELAY LEAGUE, INC. IS THE NATIONAL MEMBERSHIP SOCIETY OF LICENSED RADIO AMATEURS AND THE PUBLISHER OF QST MAGAZINE. ONE OF ITS FUNCTIONS IS PROMOTION OF PUBLIC SERVICE COMMUNICATIONS AMONG AMATEUR OPERATORS. TO THAT END, THE LEAGUE HAS ORGANIZED THE NATIONAL TRAFFIC SYSTEM FOR DAILY NATION-WIDE MESSAGE HANDLING.</p> <p>PRINTED IN U.S.A.</p>			

HF/VHF/UHF Multi-mode Station (Building A)



HF Multi-mode (CW, Digital, and SSB) (Building B)



HF Multi-mode (CW, Digital, and SSB)



HF Multi-mode (CW, Digital, and SSB)

2023 W1AW Field Day bulletin

Mode – MFSK16

Software – Fldigi 4.1.20

Sound Card – Signalink USB

Frequency – 14.095 MHz

Time - 10 AM CST

2023 W1AW Field Day Bulletin

This year, as we celebrate the Year of the Volunteer, and we experience the ever-changing propagation benefits of Solar Cycle 25, 2023 ARRL Field Day is destined to be one of the best events in recent years.

Many amateur radio operators consider Field Day to be the highlight of their year. Since its inception in 1933, Field Day remains the largest ham radio operating event in North America.

What is Field Day? Whether it's an emergency exercise, a social activity, or just friendly competition between individuals or clubs, Field Day is what you make of it.

If you wish to participate as part of a local group's Field Day operation, find active groups near you by using the ARRL Field Day Locator search page at, arrl.org/field-day-locator.

Remember to publicize your participation in the event, before, during, and after the event using social media, perhaps even live streaming.

There are bonus points available for obtaining media publicity, so be sure to reach out to your local media outlets.

After the dust settles and all the gear is packed away, don't forget to submit your entry using the online entry form at field-day.arrl.org before 2059 UTC on Tuesday, July 25, 2023.

Good luck and 73!
NNNN
GL de W1AW

This is ARRL Headquarters Station W1AW in Newington CT.

GOTA Station (Building B)



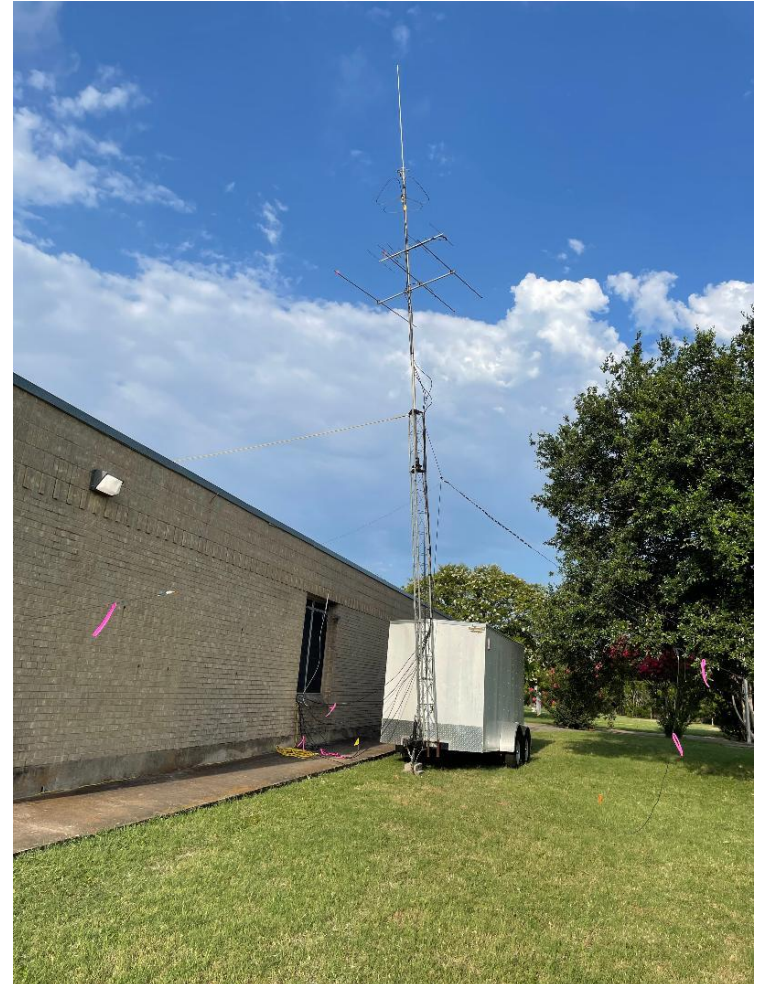
VHF/UHF Antennas – Building A



VHF/UHF Antennas – Building A



VHF/UHF Antennas – Building A



Field Day 2023 Classes

Transmission Line Impedance

Why does this transmission Line
shows infinite DC resistance
But shows short at certain
RF frequencies.....

Transmission Line standing-waves



Installation of Anderson Power Poles



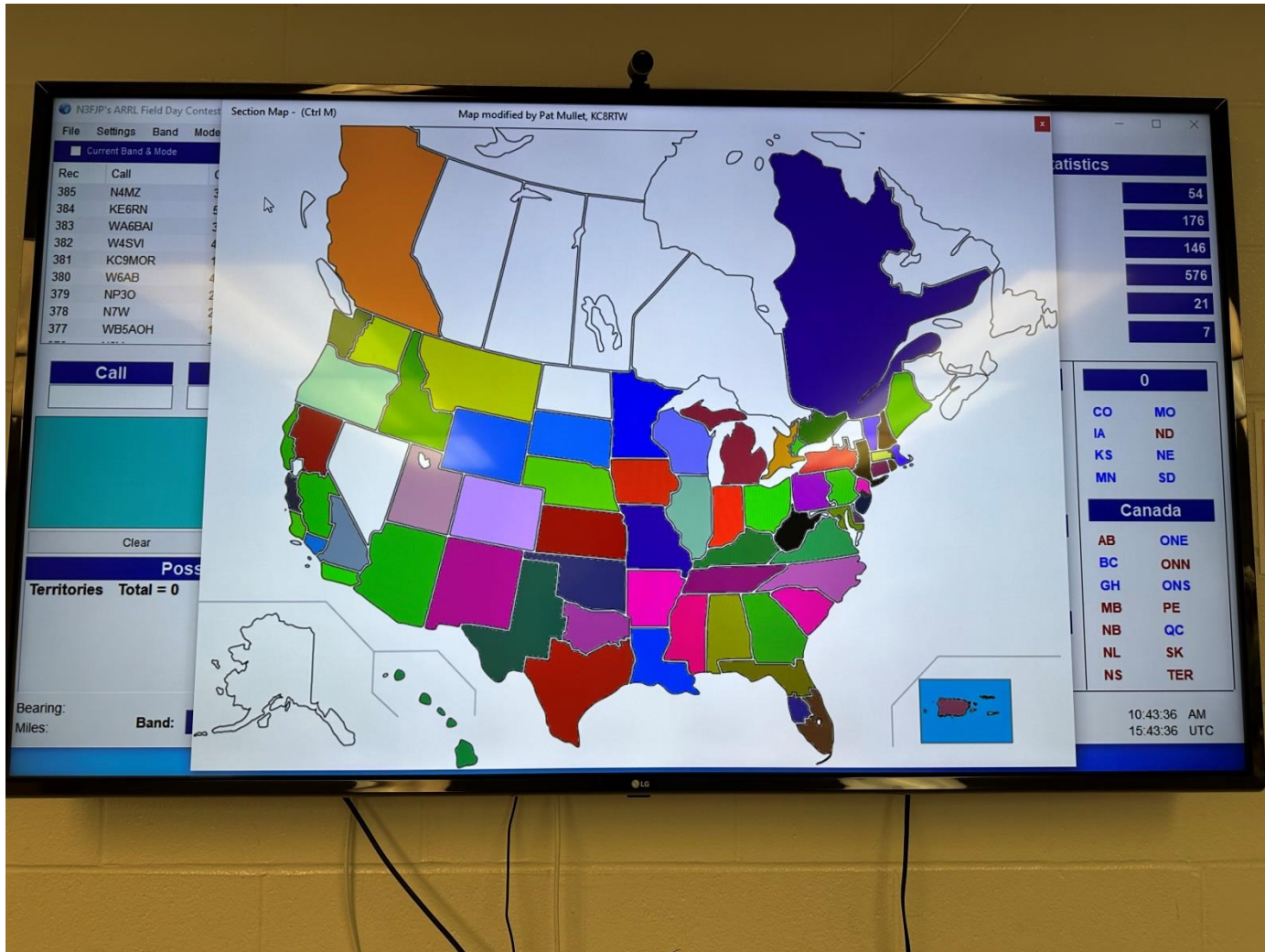
FOOD - Dinner



FOOD - Dinner



2023 Results



QUESTIONS OR COMMENTS

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