

443.300 – Plus offset (5 MHz), tone 67 Hz
145.430 – Minus offset (600 kHz), tone 67 Hz
146.460 – Plus offset (1 MHz), tone 67 Hz
146.685 – Minus offset (600KHz) DMR



VE Testing Policies; test sessions begin at 6PM – just prior to the 7PM monthly meeting on the 3rd Tuesday of each month.



SMRA AMATEUR RADIO CLUB

WWW.N3TWT.ORG

ED OTTO, W3ETO - PRESIDENT'S MESSAGE

TUESDAY 16 DEC 2025 AT 7:00 PM
GENERAL SMRA MONTHLY MEMBERSHIP MEETING
ALSO STREAMED ON ZOOM

CALL TO ORDER

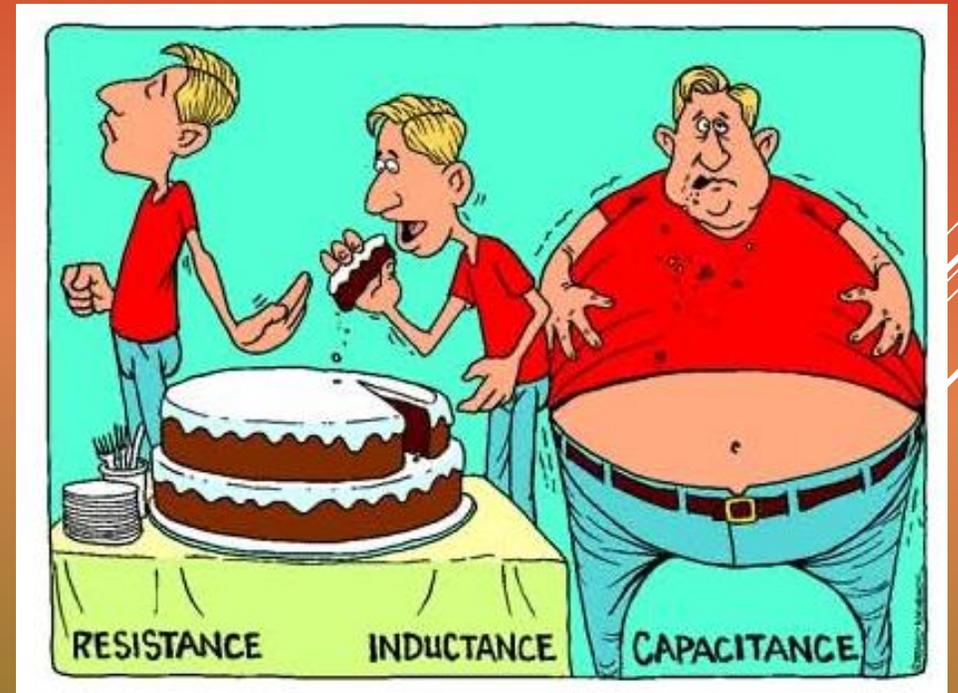
- ▶ Recognition of guests
- ▶ New member applications
- ▶ Acceptance of new members

- ▶ New Members: We use the message system Groups.io for communicating to members. You will see a request to join SMRA.Groups.io



TONIGHT:

- ▶ Presentation: Using GridTracker with FT8 for a More Engaging QSO
- ▶ Shack-of-the-Month or Gadget of the Month
- ▶ Winter Field Day
- ▶ 2025 Year in Review
- ▶ Officers report
- ▶ Nets
- ▶ Announcements, Contests and Events
- ▶ Around the Room – as time permits



SMRA DUES:

- ▶ Due on the last day of February 2026
- ▶ Easy to Pay on the Club Website: <https://n3twt.org/renew-membership-2>
- ▶ Sign in is current, so if you are **RED**, you owe dues for the year.
- ▶ Dues: **\$10.00 via PayPal** on our website or \$12.00 by check*.
 - ▶ **PayPal** is preferred and much easier for the club.
- ▶ Family dues: \$18.00
- ▶ Lifetime dues: \$100.00 ***** Best deal going.**
- ▶ Lifetime family dues: \$140.00

*Mail your \$12.00 Check to:

South Mountain Radio Amateurs c/o Mike Giordano-K3ESQ,
221 West Main Street, Mechanicsburg, PA 17055.

GROUPS.IO FOR SMRA CLUB INFO:

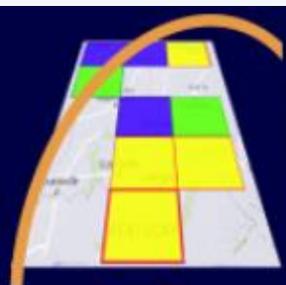
- ▶ We have a great number of unique SMRA sub-groups on Groups.io
- ▶ Members may not know about them
 - ▶ NOTE: Groups.io emails can easily be blocked by SPAM Blockers.
- ▶ Don't need to email all groups, the same content.
- ▶ **SMRA@Groups.io – Goes to everyone.**
 - ▶ Announcements, Events, Interesting HAM radio news
 - ▶ Discussion and Questions welcome
 - ▶ **Are you on this group and receiving emails?**



PRESENTATION:

Using GridTracker with FT8 for a more Exciting QSO

Ed W3ETO



GridTracker

An Amateur Radio Companion

GridTracker2 [Band: 10m Mode: FT8 Layer: Grids - Worked: 100 Confirmed: 164]

3.499, -78.662 3807mi 123° FJ03QI

GridTracker2
28,074,900 Hz (10m) FT8
Fri 08 Nov 2024 16:30:32 UTC

RECEIVE

Rx Calls: 338 QSO: 2831
Rx DXCC: 30 QSL: 2509

Map View Filters
Band: Auto
Mode: Auto
Prop: Mixed
Data: Logbook & Live
Award: None

10m / FT8
GridTracker2 v2.241107.2

Call Router: 102 heard + 64 in noise + 37 wanted

RECEIVE Hot TX Settings Wanted

Logbook: Live Band & Mode
Handling: New+Unconfirmed

Callign: Callign Grid GAMS Continent Only Wanted Not My DXCC
 DXCC CGZ CGZ FTUz RR73 as CQ Only My DXCC
 WPX WPX County Spotted Me
 New Calls Use Grid

| Callign | Calling | Grid | DXCC | State | Freq | dB | Spot | GAMS | Age |
|---------|---------|------|--------------------|-------|------|-----|------|------|-----|
| K9A | IV3UFL | | United States | IL | 2486 | -24 | | | 1s |
| KJ4R | N1MGO | EM90 | United States | FL | 557 | -21 | | | 1s |
| VE2E9F | G800A | FT35 | Canada | QC | 1978 | -24 | | | 1s |
| G8VLI | W1IC | K094 | England | | 1403 | -23 | | | 2s |
| Y08HP | K7VF | KN35 | Romania | | 2328 | -24 | | | 3s |
| 9A169NT | CG | | Croatia | | 2284 | -19 | | | 3s |
| K1ON | D2ACE | FN41 | United States | IS | 428 | -19 | | | 5s |
| W3FAC | D2ACE | FM19 | United States | MD | 2154 | -19 | | | 5s |
| W4B8C | VO1TX | EM75 | United States | TN | 1371 | -8 | | | 5s |
| W6RG | KC1J8B | FN18 | United States | ND | 1434 | -11 | | | 5s |
| WB1TF | UX2SB | EM60 | United States | AL | 3017 | -17 | | | 5s |
| WW5TT | CG | EM25 | United States | OK | 2701 | -19 | | | 5s |
| TQ1JV | M3RLA | SK60 | Costa Rica | | 1075 | -12 | | | 5s |
| KM4KA | CG | FM10 | United States | VA | 888 | -10 | | | 5s |
| K4CCT | DK7LH | EM52 | United States | AL | 1055 | -10 | | | 5s |
| H88 | IK0GHN | FK58 | Dominican Republic | | 1317 | -16 | | | 5s |
| KD2WWJ | Y712NG | FN00 | United States | NJ | 1160 | -20 | | | 5s |
| KB0BK | CG | EN37 | United States | MI | 1576 | -12 | | | 5s |
| EA4TX | CG | IN80 | Spain | | 1513 | -18 | | | 5s |
| OK1MAX | N7MYW | JN58 | Germany | | 2459 | -8 | | | 6s |
| WB4CF | OZ1KEF | EL96 | United States | FL | 397 | -12 | | | 6s |
| K4WSX | W1IC | EL57 | United States | FL | 667 | -5 | | | 6s |
| A4SHH | K7VF | EM21 | United States | TX | 1188 | -11 | | | 6s |
| KD4ZHL | W7CT | EK69 | United States | FL | 900 | -20 | | | 6s |
| KB9S | W2TAD | EN44 | United States | WI | 1991 | -4 | | | 6s |

Statistics

Logbook Scores DXCCs Zones / WAC WAS / WACP / US48 WPX Live Decodes

Entries (2831)
Page 1 of 28 (100)

| Station | Grid | Mixed | Band | Mode | QSL | Sent | Rcvd | DXCC | Flag | State | When |
|---------|--------|-------|------|------|-----|------|------|-------------------|------|------------------------------|------|
| N1BUQ | FN55MF | 6m | FT8 | L | -10 | -15 | | United States (K) | ME | Tue 05 Nov 2024 18:28:45 UTC | |
| K1SIX | FN45AD | 6m | FT8 | L | -14 | -15 | | United States (K) | NH | Tue 05 Nov 2024 18:24:15 UTC | |
| W3UCA | FN20BJ | 10m | FT8 | Q | -02 | -05 | | United States (K) | PA | Mon 04 Nov 2024 23:03:00 UTC | |
| ZL3BX | RF58GR | 10m | FT8 | | -18 | -08 | | New Zealand (ZL) | | Mon 04 Nov 2024 23:00:00 UTC | |
| VA2ONE | FN35IM | 10m | FT8 | | -09 | -08 | | Canada (VE) | QC | Mon 04 Nov 2024 22:54:00 UTC | |
| JE1HM | QM05BU | 10m | FT8 | | -16 | -11 | | Japan (JA) | | Mon 04 Nov 2024 22:47:00 UTC | |
| JH2UV | FW05JU | 10m | FT8 | LQ | -19 | -08 | | Japan (JA) | TJ | Mon 04 Nov 2024 22:45:45 UTC | |
| K5KP | FM08PB | 10m | FT8 | LQ | -04 | -01 | | United States (K) | VA | Mon 04 Nov 2024 22:45:00 UTC | |
| W7TEC | EN35VN | 10m | FT8 | LQ | -03 | +29 | | United States (K) | MN | Mon 04 Nov 2024 22:43:45 UTC | |
| JF8CFI | QR23DX | 10m | FT8 | LQ | +01 | -06 | | Japan (JA) | 91 | Mon 04 Nov 2024 22:37:45 UTC | |
| W8OVX | DN98 | 10m | FT8 | LQ | +00 | -03 | | United States (K) | ND | Mon 04 Nov 2024 22:36:15 UTC | |
| WA4HPK | EN35KH | 10m | FT8 | LQ | -14 | -11 | | United States (K) | MN | Mon 04 Nov 2024 21:01:45 UTC | |
| VA30BR | FN07MV | 10m | FT8 | LQ | -13 | +02 | | Canada (VE) | ON | Mon 04 Nov 2024 20:36:00 UTC | |

NR0Q / United States / EM15XJ / 52m / FT8 / Grid

NR0TTL Fri 08 Nov 2024 16:28:55 UTC
Say Hi for a screenshot

2E1DJN
2F1DD
2E0FVN
2L0W L
2E0IOL
2F0IRI
2E0K0H
2L0KPK
2E0LNX
2F0NAQ
2E0NLK
2L0PSD
2E0SFZ
2E0TFZ
2L0TIZ
2H0MGK
2M0HPT
2M0LNF
2M0MNU
2M0MNB
2W0APD

GridTracker would like to acknowledge NR0Q GridTracker Developer

Confirmed 10m,FT8 12m,FT8 17m,FT8 20m,FT8 30m,FT8 40m,FT8
Last QSO 10m,FT8 Fri 01 Nov 2024 23:08:00 UTC
United States (K) 10m 9m 30m 20m 17m 15m 12m 10m 9m

Details

GridTracker User
Class E
Code HWIA
Effective Dates 2024-05-03 / 2034-07-08
Aliases NX7AZ
DXCC 291 - United States
FIPS 40113
Timezone Central
GMT Offset -5
County OK, Osage
Latitude 36.997393
Longitude -95.887182
Distance 150km

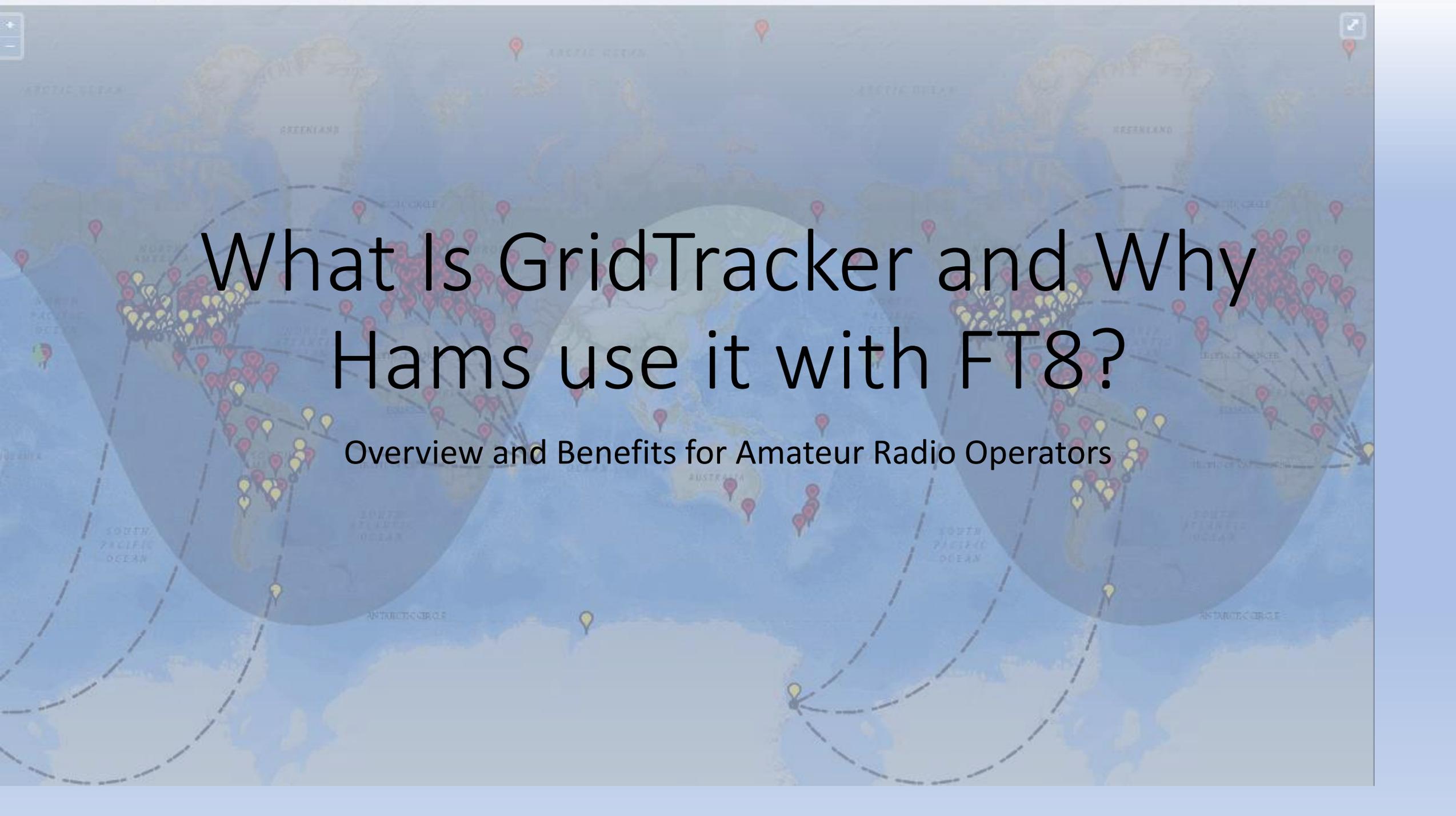
NR0Q
Matthew A Chambers
PO BOX 471185
Tulsa, OK 74147
United States

Why Use WSJT-X (FT8) Mode for HAM Operations

- Exceptional Weak-Signal Performance
 - FT8 can decode signals at extremely low signal-to-noise ratios—often below –20 dB—enabling communication under conditions where traditional modes like SSB or CW cannot succeed.
- Fast, Automated, and Efficient QSOs
 - The 15-second synchronized transmission cycles and structured exchanges make FT8 contacts consistent, quick, and partially automated, allowing operators to run stations with minimal interaction
- High Stability and Reliability
 - FT8's precise timing and error-correcting encoding allow it to perform well even during fading, interference, or crowded band conditions, providing dependable communication.

Ideal for Low-Power (QRP) Operation

- Ideal for Low-Power (QRP) Operation
 - Thanks to its efficient digital encoding, operators can achieve long-distance (DX) contacts using very low power levels, often just a few watts.
- Excellent Tool for Antenna and Propagation Testing
 - Because FT8 signals are automatically spotted on networks like PSK Reporter, operators can easily evaluate antenna performance and observe real-time propagation paths.
- High Global Activity and DX Availability
 - FT8 is one of the busiest modes on modern HF bands, providing constant activity and making worldwide contacts possible at nearly any hour of the day.
 - Easy DX hunting – Especially assisted by DXSummit.fi website

A world map with a grid of latitude and longitude lines. Numerous red location pins are scattered across the map, with a higher concentration in the North Atlantic and North Pacific regions. The map is overlaid with a semi-transparent blue and white circular graphic that frames the central text.

What Is GridTracker and Why Hams use it with FT8?

Overview and Benefits for Amateur Radio Operators

What Is GridTracker?

- A FREE companion application for WSJT-X and other digital modes software
- Tracks FT8, FT4, and other digital QSOs in real time
- Displays stations on a world map by Maidenhead grid squares
- Integrates with logging programs and spotting networks
- It gives FT8 contacts “ Personality” and makes the hunt fun!

Why Operators Use GridTracker for FT8

- Provides a visual, live map of all decoded stations
- Once you click on a contact, you it looks that contact up in QRZ
 - See photo of the person, all details, Shack and Antenna's, all details of that person they wish to share.
 - Links to more detail like websites (Antarctica live cams, Stations Details) (ships – Exact location and Grid square, Details on the ship... e.g. my Russian Science Vessel
 - Previous contact information with them
 - What Bands you worked, Confirmations
- Helps identify where your signal is being heard
- Simplifies chasing DX and confirming new grid squares
- **Works seamlessly with WSJT-X without extra setup**

Key Benefits of GridTracker

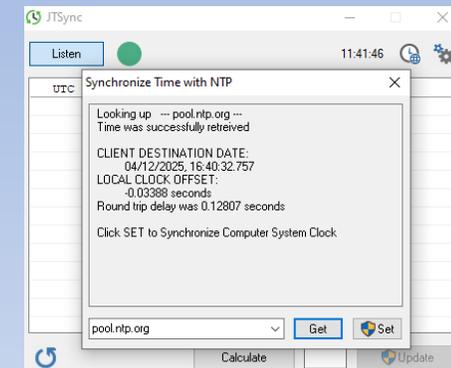
- More fun- Instant signal path visualization on global or regional maps
- Automatic logging to popular logbooks (Logbook of the World, QRZ, eQSL, ClubLog, etc.)
- Real-time propagation awareness for better band decision-making
- Shows worked vs. confirmed grids, DXCC, CQ/ITU zones, and more
 - Perfect for Working all States, Continents, Grid squares, and other Awards
- Enhanced situational awareness during FT8 operations = Adds the FUN

Recommended Software and Locations

- WSJT-X - <https://sourceforge.net/projects/wsjt/files/>
- GridTracker - <https://gridtracker.org/>
- DX Spotting Website: <http://dxsummit.fi>
- QRZ membership for live lookups of your contacts (this makes it FUN) only cost \$39
- Good Clocking app

Definitely recommend a Time Sync app that runs in the background of the PC and frequently updates your computer time to the precise time.

- NetTime, Atomic Clock Sync, SNTP Network Time Sync, and PTPSync (Precision Time Protocol Sync)
- I Use – NetTime <https://timesynctool.com/> sometimes JTSYNC
 - I use JT-SYNC when the station I want has a clock that is way off.
 - I will change my clock to match theirs and get that contact
 - Then use JTSync to reset the clock or wait for my background app to adjust it to normal.
 - It can also work in the field when you have no network connection – It can listen to the FT8 stations, take an average of their times, and update your clock to the average



DX Spotting

DXSummit.fi

- Running in my shack 24/7
- Use your favorite DX Tracker too

MY DX SUMMIT RADIO X ARCALA

Spots Spot Search Daily DX News Radio Arcala Visit Azores Tutorials

+ Filters dx inc Search

| Spotter | Freq. | DX | Time | Info | Country |
|-----------|-----------|----------|--------------|--------------------------------|----------------------|
| F4HEC-@ | 28026.2 | ZF200 | 16:49 04 Dec | CQ | Cayman Islands |
| SSB1SSB-@ | 3500.0 | SP9MAV | 16:48 04 Dec | ha ha ha,u r a complete id.i.t | Poland |
| F5LNU-@ | 28090.0 | TO9W | 16:48 04 Dec | FT8 +30 | St. Martin |
| I3RXJ-@ | 3662.0 | I3RXJ | 16:48 04 Dec | CALENDARIO DELL'AVVENTO | Italy |
| DH1PAL-@ | 3778.0 | DL0DIG | 16:48 04 Dec | for DARC75-Award | Fed. Rep. of Germany |
| SP8HAS-@ | 7149.0 | SP8HAS | 16:47 04 Dec | 100 years qso | Poland |
| N3NTJ-@ | 14265.0 | N3NTJ | 16:47 04 Dec | Pota us-8843 | United States |
| G4UNB-@ | 14310.0 | S51DX | 16:46 04 Dec | tnx Janez 73 | Slovenia |
| K9XD | 50313.0 | 6W1RD | 16:44 04 Dec | fl8 we copied u at 1554z -17db | Senegal |
| IU3IIZ | 7189.0 | IU1RVT | 16:44 04 Dec | **Ionotest-Speciale Natale eqs | Italy |
| DF6QE-@ | 14210.0 | OM9YOTA | 16:44 04 Dec | YOTA | Slovak Republic |
| W4PSK | 28074.2 | DJ9HX | 16:43 04 Dec | | Fed. Rep. of Germany |
| PA3CNI-@ | 28065.0 | C5YK | 16:43 04 Dec | fl8, qsl via ON7YK | The Gambia |
| KQ4SKS | 28074.9 | M0PWX | 16:43 04 Dec | | England |
| IU3IIZ | 7089.0 | IQ6KX | 16:43 04 Dec | **Ionotest-Speciale Natale eqs | Italy |
| KB7THL | 28466.0 | EA7GX | 16:43 04 Dec | | Spain |
| MM0DXL | 14210.0 | OM9YOTA | 16:42 04 Dec | Thank you 73 | Slovak Republic |
| IZ7FLN | 7098.0 | IU0KNS | 16:42 04 Dec | (M@. | Italy |
| DG8WA | 3556.0 | DL50OHH | 16:42 04 Dec | SES DARC // CW QRS | Fed. Rep. of Germany |
| M1RJG | 14310.0 | S51DX | 16:42 04 Dec | SSB | Slovenia |
| TA2IJ | 21015.0 | AO25YOTA | 16:42 04 Dec | CW | Spain |
| EA1YV | 2400040.0 | DK9SF | 16:42 04 Dec | IN520C<SAT>JO50 | Fed. Rep. of Germany |
| DK8YY | 5357.0 | BA4RF | 16:42 04 Dec | | China |

16:49:22 04 Dec

Location

Share a spot

My call: Callsign
DX: DX
kHz: kHz
Info: Info

Share

Prop Propagation Now

Solar-Terrestrial Data
04 Dec 2025 1625 GMT
SFI: 209 SN: 207
A-Index: 33
K-Index: 4
X-Ray: C3.0
304A: 145.1 @ SEM

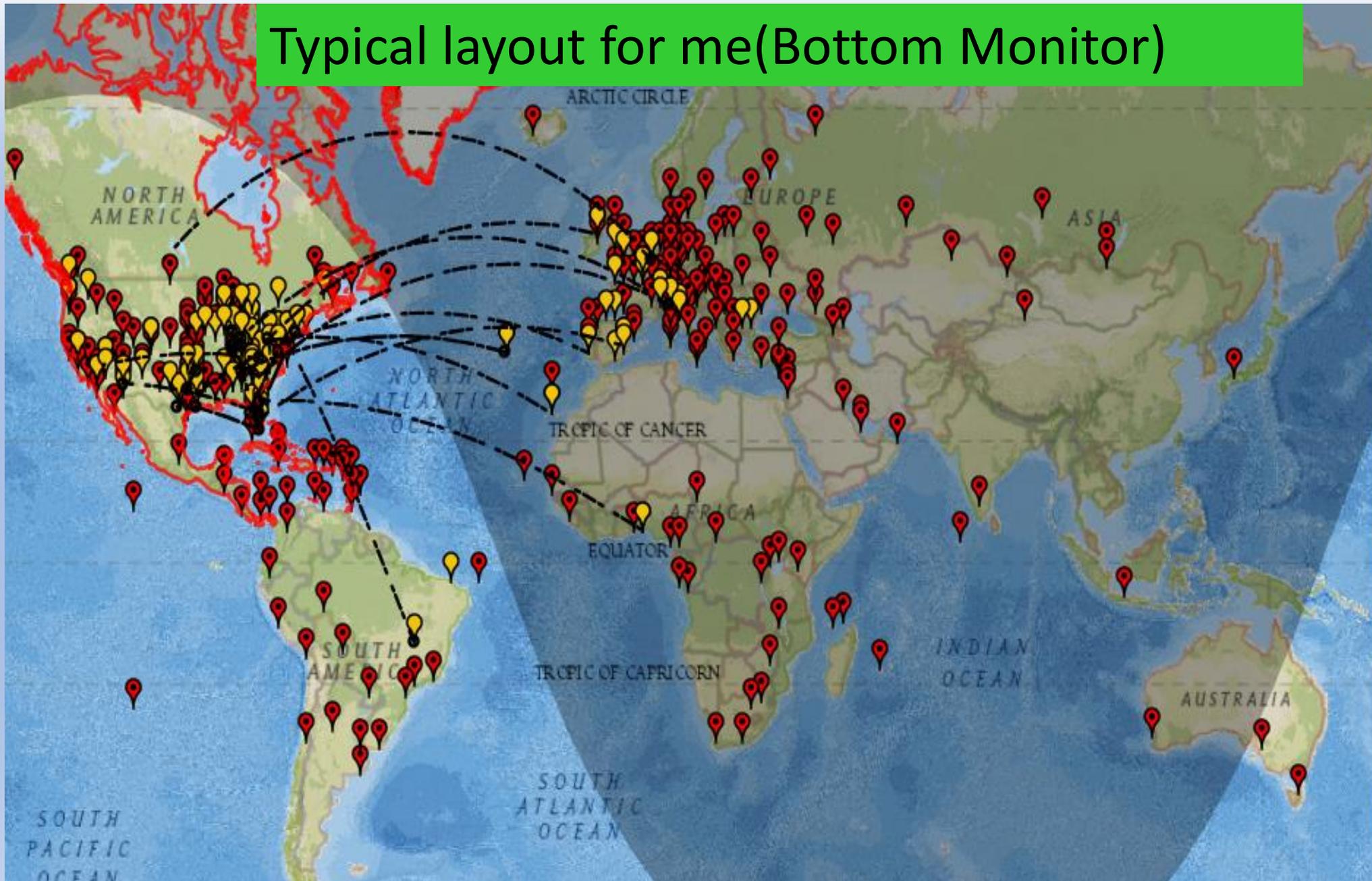
Calculated Conditions

| Band | Day | Night |
|----------|------|-------|
| 80m-40m: | Poor | Fair |
| 30m-20m: | Fair | Fair |
| 17m-15m: | Fair | Fair |
| 12m-10m: | Fair | Poor |

Signal Noise: S3-S4

Click to Install Solar Data On your Web Site
<http://www.n0n0n.com>
Copyright Paul L. Herrman 2024

Typical layout for me(Bottom Monitor)



14.074.000 HZ (20m) F1B
12/4/2025 2:40:52 PM
D2UY J164 -3
Angola 8489mi 94°

RECEIVE

180 80 60 40 30 20 17 15 12 10 6 2

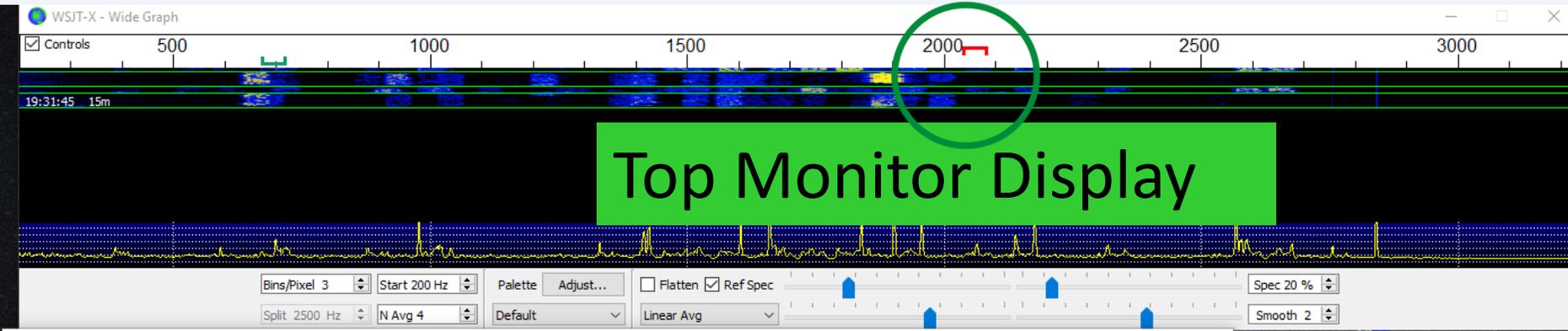
Rx Calls **598** QSO **5644**
Rx DXCC **53** QSL **3877**

Clear Live Clear Log

Map View Filters

Band **Auto**
Mode **Digital**
Prop **Mixed**
Data **Logbook & Live**
Award **None**

QTH MH 4
ADIF [020] [N29]
Kp 4
LOG LoW LOG Club



Set Transmit on Free Area
Receive (set when calling CQ
Odd/Even time

WSJT-X v2.7.0 by K1JT et al.

File Configurations View Mode Decode Save Tools Help

| Band Activity | | | | Rx Frequency | | | | | |
|---------------|-----|------|------|--------------------------|--------|-----|------|-------------------|-----------------------------|
| UTC | dB | DT | Freq | Message | UTC | dB | DT | Freq | Message |
| 193100 | 3 | 0.1 | 1860 | ~ EA8ACW KC6SEH DM24 | 192245 | -14 | 0.1 | 1229 | ~ CQ EC3A JN00 Spain |
| 193100 | -2 | 0.4 | 1494 | ~ EA8ACW W6TOX DM24 | 192315 | -15 | 0.1 | 1228 | ~ CQ EC3A JN00 Spain |
| 193100 | 2 | -0.3 | 1974 | ~ W5TMK K7OEG R+00 | 192345 | -15 | 0.1 | 1229 | ~ CQ EC3A JN00 Spain |
| 193100 | -5 | 0.3 | 856 | ~ WA0MHJ EA1AOC 73 | 192415 | -16 | 0.1 | 1229 | ~ CQ EC3A JN00 Spain |
| 193100 | 6 | 0.4 | 1392 | ~ CQ C08CF FL20 Cuba | 192745 | -10 | 0.1 | 1229 | ~ CQ EC3A JN00 Spain |
| 193100 | -8 | 0.2 | 1682 | ~ GJ0KYZ N0EUV R-17 | 192815 | -14 | 0.1 | 1229 | ~ CQ EC3A JN00 Spain |
| 193100 | -14 | 0.2 | 2249 | ~ CQ KF7BXH DM09 U.S.A. | 192845 | -15 | 0.1 | 1229 | ~ CQ EC3A JN00 Spain |
| 193100 | -11 | 0.2 | 791 | ~ KA1ERL KK4SAC RR73 | 192915 | -18 | 0.1 | 1228 | ~ CQ EC3A JN00 Spain |
| 193100 | -15 | 0.1 | 2514 | ~ M0SLI <AO1000MM> -21 | 192945 | 7 | 0.1 | 1222 | ~ CQ EA8ACW IL28 Canary Is. |
| 193100 | -3 | 0.2 | 672 | ~ CQ D2UY JI64 Angola | 193000 | -18 | 0.7 | 1221 | ~ EA8ACW K0SMR EN35 |
| 193100 | -14 | 0.2 | 1609 | ~ CQ HC1M FT09 Ecuador | 193015 | 10 | 0.1 | 1222 | ~ CQ EA8ACW IL28 Canary Is. |
| 193100 | -8 | 0.4 | 1902 | ~ KD5NSK N3QQH R-12 | 193015 | -12 | 0.1 | 1229 | ~ CQ EC3A JN00 Spain |
| 193100 | -11 | 0.2 | 1350 | ~ CQ DX PV5N GG52 Brazil | 193030 | -5 | 0.7 | 1221 | ~ EA8ACW K0SMR EN35 |
| 193100 | -13 | 0.1 | 1659 | ~ <N8BM> W4/ZS2GK RR73 | 193045 | 8 | 0.1 | 1222 | ~ VA3ZC EA8ACW -07 |
| 193100 | -15 | 0.7 | 1723 | ~ KA1DJ VP2MAA +32 | 193045 | -9 | 0.1 | 1229 | ~ CQ EC3A JN00 Spain |
| 193100 | -10 | 0.2 | 916 | ~ EI3JE EA1YV R-05 | 193100 | -16 | 0.3 | 1222 | ~ EA8ACW VA3ZC R+04 |
| 193100 | -13 | -0.4 | 941 | ~ CQ IK7DIJ JN72 Italy | 193115 | 10 | 0.1 | 1222 | ~ VA3ZC EA8ACW RR73 |
| 193100 | -16 | 0.3 | 1222 | ~ EA8ACW VA3ZC R+04 | 193130 | -18 | 0.3 | 1222 | ~ EA8ACW VA3ZC 73 |
| 193100 | -18 | 0.1 | 1819 | ~ CQ W29Q EN52 U.S.A. | 193100 | -3 | 0.2 | 672 | ~ CQ D2UY JI64 Angola |
| 193115 | 10 | 0.1 | 1222 | ~ VA3ZC EA8ACW RR73 | 193150 | Tx | 2037 | ~ D2UY W3ETO FN10 | |
| | | | | | 193200 | -7 | 0.2 | 672 | ~ HK1J D2UY RR73 |

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

15m **S** **21.074 000** Tx even/1st Hold Tx Freq Tx 2037 Hz

H DX Call DX Grid Tx 672 Hz Report -3 Auto Seq CQ: Max Dist

FT8 D2UY JI64 Az: 94 6472 mi

MSK **2025 Dec 04** **19:32:38**

Q65 JT65

New FDX10 FT8 Last Tx: D2UY W3ETO FN10 24

Callsign Lookup

Callsign **D2UY**

| | |
|-------------|---------------------------------|
| Worked | 20m,FT8 |
| Confirmed | 10m,FT8 12m,FT8 15m,FT8 17m,FT8 |
| Last QSO | 10m,FT8 1/5/2024 12:09:00 PM |
| Angola (D2) | 40m 20m 17m 15m 12m 10m |

Details

| Biography | Link |
|--------------|-----------------|
| Class | D |
| DXCC | 401 - Angola |
| Latitude | -5.561550 |
| Longitude | 12.249923 |
| Distance | 6433mi |
| Azimuth | 94° |
| Grid | JI64CK |
| LoTW | Yes |
| Source | QRZ.com |
| LoTW Member | ✓ (30 Nov 2025) |
| eQSL Member | ✓ |
| ClubLog OQRS | ✓ |

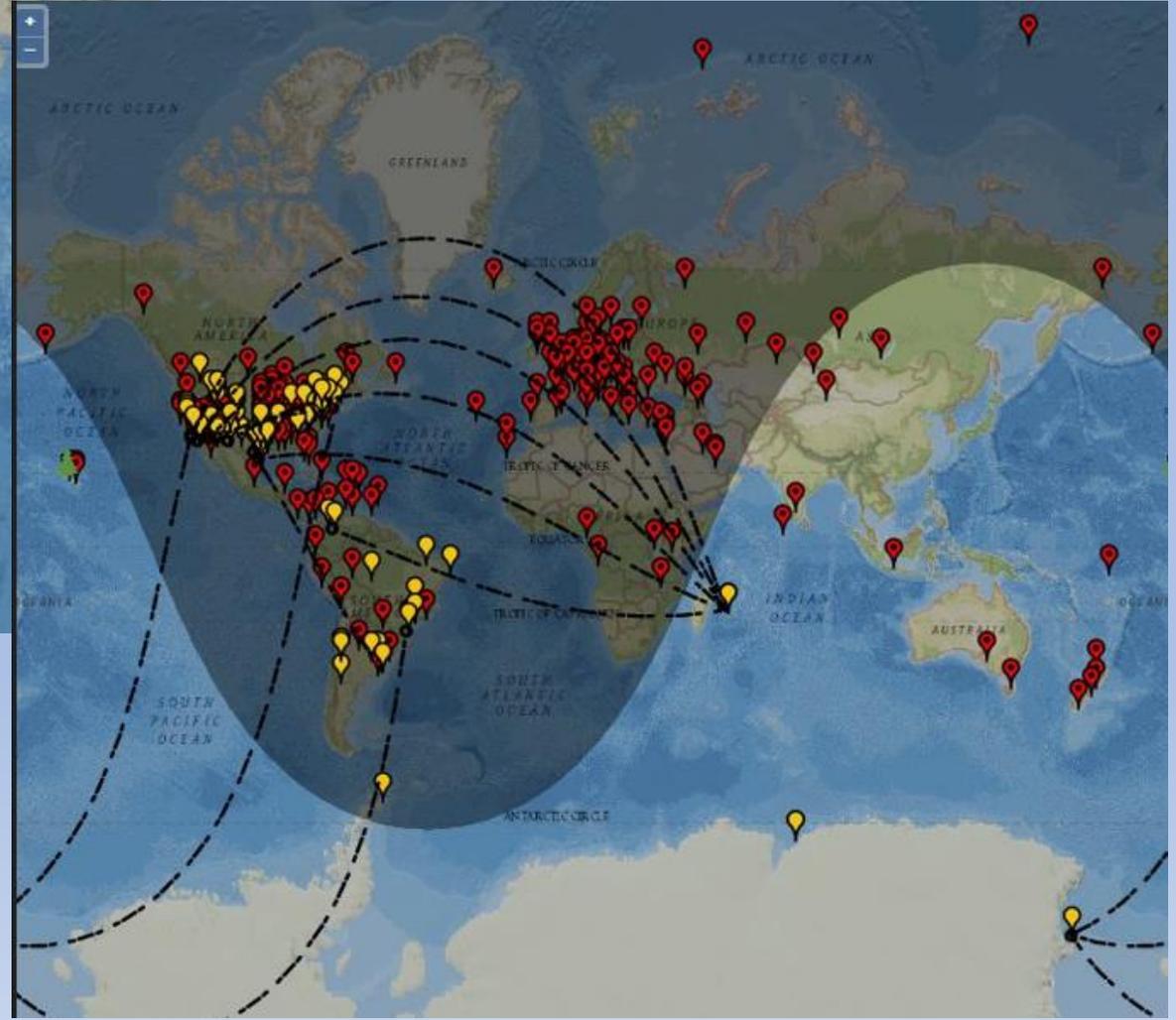
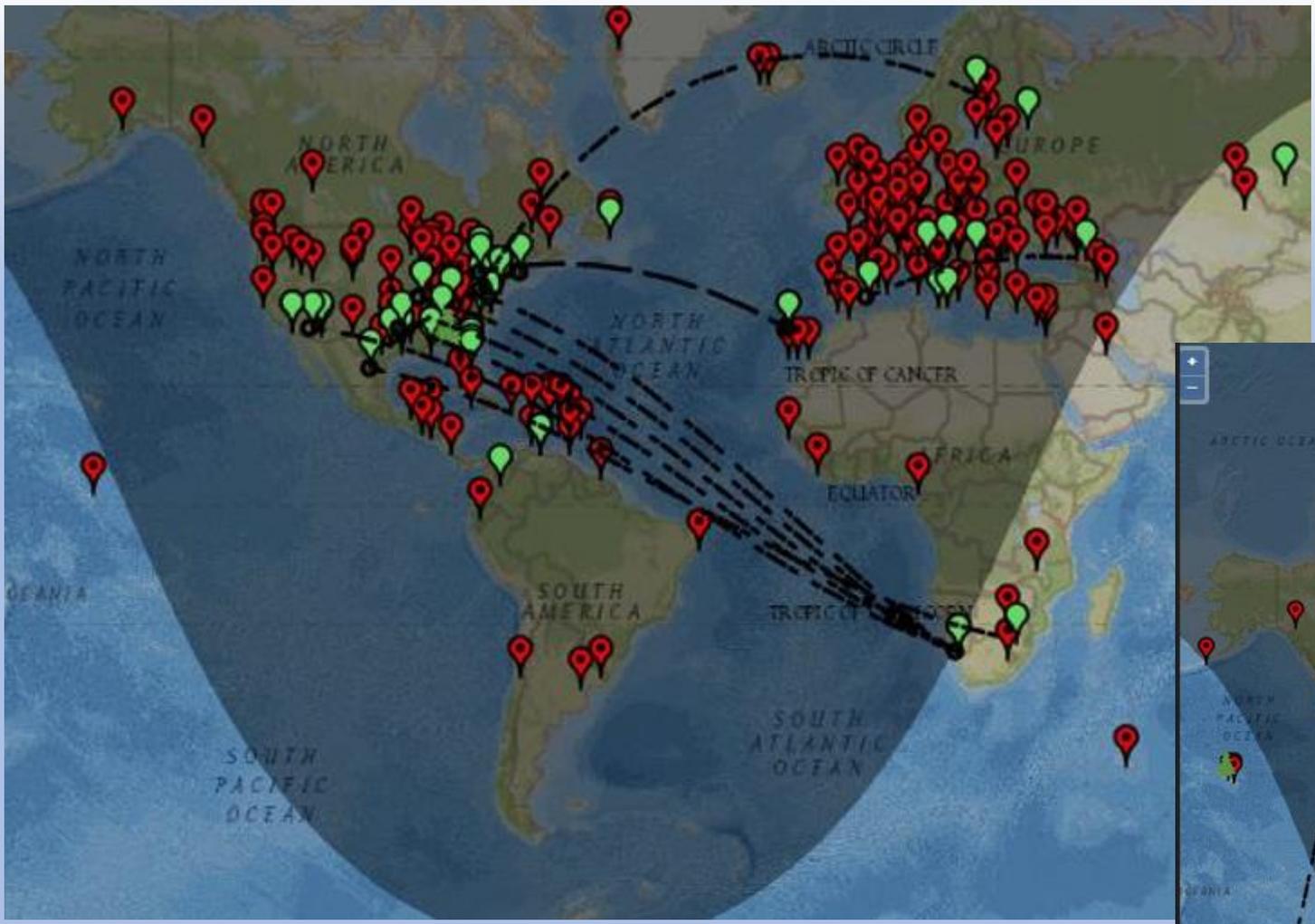
D2UY

Mikalai Makeichyk
 Cabinda, 0111
 Angola
 hock.lock69@posteo.net

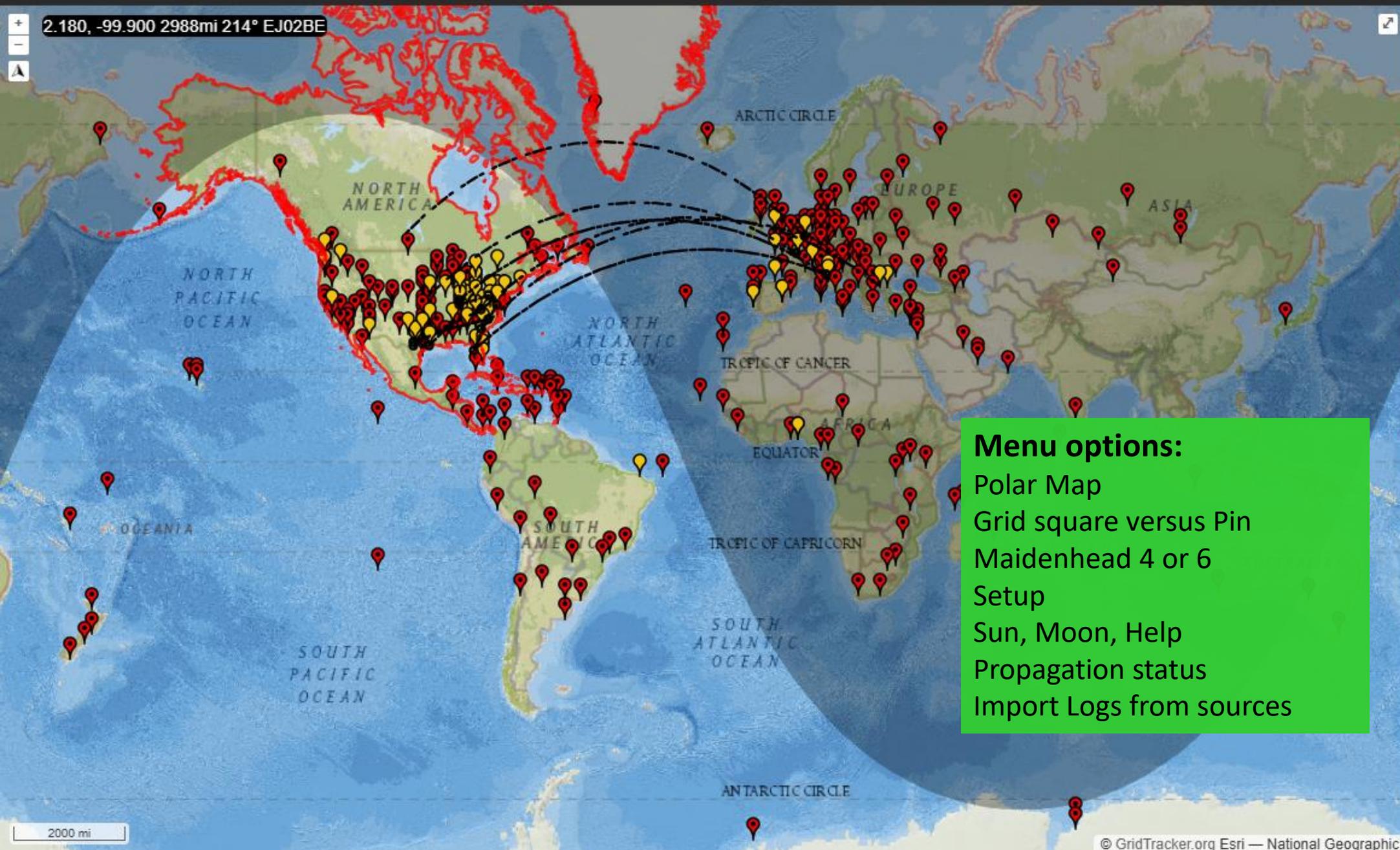
Generate Std Msgs Next Now Pwr

| | | |
|-----------------|----------------------------------|------|
| D2UY W3ETO FN10 | <input checked="" type="radio"/> | Tx 1 |
| D2UY W3ETO -03 | <input type="radio"/> | Tx 2 |
| D2UY W3ETO R-03 | <input type="radio"/> | Tx 3 |
| D2UY W3ETO RR73 | <input type="radio"/> | Tx 4 |
| D2UY W3ETO 73 | <input type="radio"/> | Tx 5 |
| CQ W3ETO FN10 | <input type="radio"/> | Tx 6 |

Pileups and Rare DX



2.180, -99.900 2988mi 214° EJ02BE



Menu options:
Polar Map
Grid square versus Pin
Maidenhead 4 or 6
Setup
Sun, Moon, Help
Propagation status
Import Logs from sources

GridTracker2
14.074.000 Hz (20m) FT8
12/4/2025 2:38:13 PM
D2UY J164 -3
Angola 6468mi 94°

DECODE

160 80 40 20 17 15 12 10 6 2

Rx Calls **548** QSO **5644**
Rx DXCC **51** QSL **3877**
Clear Live Clear Log

Map View Filters
Band **Auto**
Mode **Digital**
Prop **Mixed**
Data **Logbook & Live**
Award **None**

QTH, Grid, Log, MH 4, ADIF, J020 JN29, Kp 4, S.T., LOG QRZ, LOG LoTW, LOG Club

20m / FT8
12m / FT8
15m / FT8
10m / FT8
New Version 2.250914.1
30m / FT8
GridTracker2

| Source/Sync | Connect? | Menu? | Startup? | Log? | Details | Test | Result |
|------------------|--------------------------|-------------------------------------|---|-------------------------------------|---|--|--------|
| App Log(s) | | | <input type="button" value="Add File"/> | | <input checked="" type="checkbox"/> Enable Value <input checked="" type="checkbox"/> WSJT-X \ wsjtx_log.adi | | |
| GridTracker2 | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="button" value="Backup Logs"/> | | |
| Local File(s) | | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| PSK-Reporter | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | 24 Hour History | | |
| QRZ.com | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | API Key <input type="text" value="....."/> | <input type="button" value="Test"/> | |
| ClubLog | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Callsign <input type="text" value="W3ETO"/> Password <input type="text" value="....."/> Email <input type="text" value="w3eto@duck.com"/> | <input type="button" value="Test"/> | |
| HRDLOG.net | | | | <input type="checkbox"/> | Callsign <input type="text" value=""/> Upload Code <input type="text" value=""/> *** How to get upload code *** | <input type="button" value="Test"/> | |
| Cloudlog/Wavelog | | | | <input type="checkbox"/> | URL <input type="text" value="http://127.0.0.1"/> API Key <input type="text" value=""/> Station Profile <input type="button" value="Press Test"/> | <input type="button" value="Test"/> | |
| eQSL.cc | | | | <input checked="" type="checkbox"/> | User <input type="text" value="W3ETO"/> Password <input type="text" value="....."/> QTH Nickname <input type="checkbox"/> | <input type="button" value="Test"/> | |
| LoTW | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Login <input type="text" value="W3ETO"/> Password <input type="text" value="....."/> | <input type="button" value="Test Download"/> | |
| HamCQ.cn | | | | <input type="checkbox"/> | API Key <input type="text" value=""/> | <input type="button" value="Test"/> | |
| N1MM Logger+ | | | | <input type="checkbox"/> | IP <input type="text" value="127.0.0.1"/> Port <input type="text" value="2333"/> | | |
| Log4OM | | | | <input type="checkbox"/> | IP <input type="text" value="127.0.0.1"/> Port <input type="text" value="2236"/> | | |
| N3FJP Loggers | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | IP <input type="text" value="127.0.0.1"/> Port <input type="text" value="1100"/> | | |
| DXKeeper | | | | <input type="checkbox"/> | IP <input type="text" value="127.0.0.1"/> Port <input type="text" value="52000"/> | | |
| HRD Logbook | | | | <input type="checkbox"/> | IP <input type="text" value="127.0.0.1"/> Port <input type="text" value="7826"/> | | |

Setup Screen



14.07
12/4
T

160 80 60

Rx C
Rx D
Cle

Ma
Band
Mode
Prop
Data
Award

Receive Display and Filters

GridTracker2
10.140.000 Hz (30m) FT4
12/4/2025 3:43:04 PM
TT1GD--12
Chad

RECEIVE

160 80 60 40 30 20 17 15 12 10 6 2

Rx Calls **280** QSO **5645**
Rx DXCC **32** QSL **3877**
Clear Live Clear Log

Map View Filters

Band **Auto**
Mode **Digital**
Prop **Mixed**
Data **Logbook & Live**
Award **None**

Red = PSK Reporter
Propagation
Blue = Score Potential from
your location with
propagation.

Logbook and Live

Filter on Award you are
chasing

GridTracker2
10.140.000 Hz (30m) FT4
12/4/2025 3:41:34 PM
TT1GD--12
Chad

RECEIVE

160 80 60 40 30 20 17 15 12 10 6 2

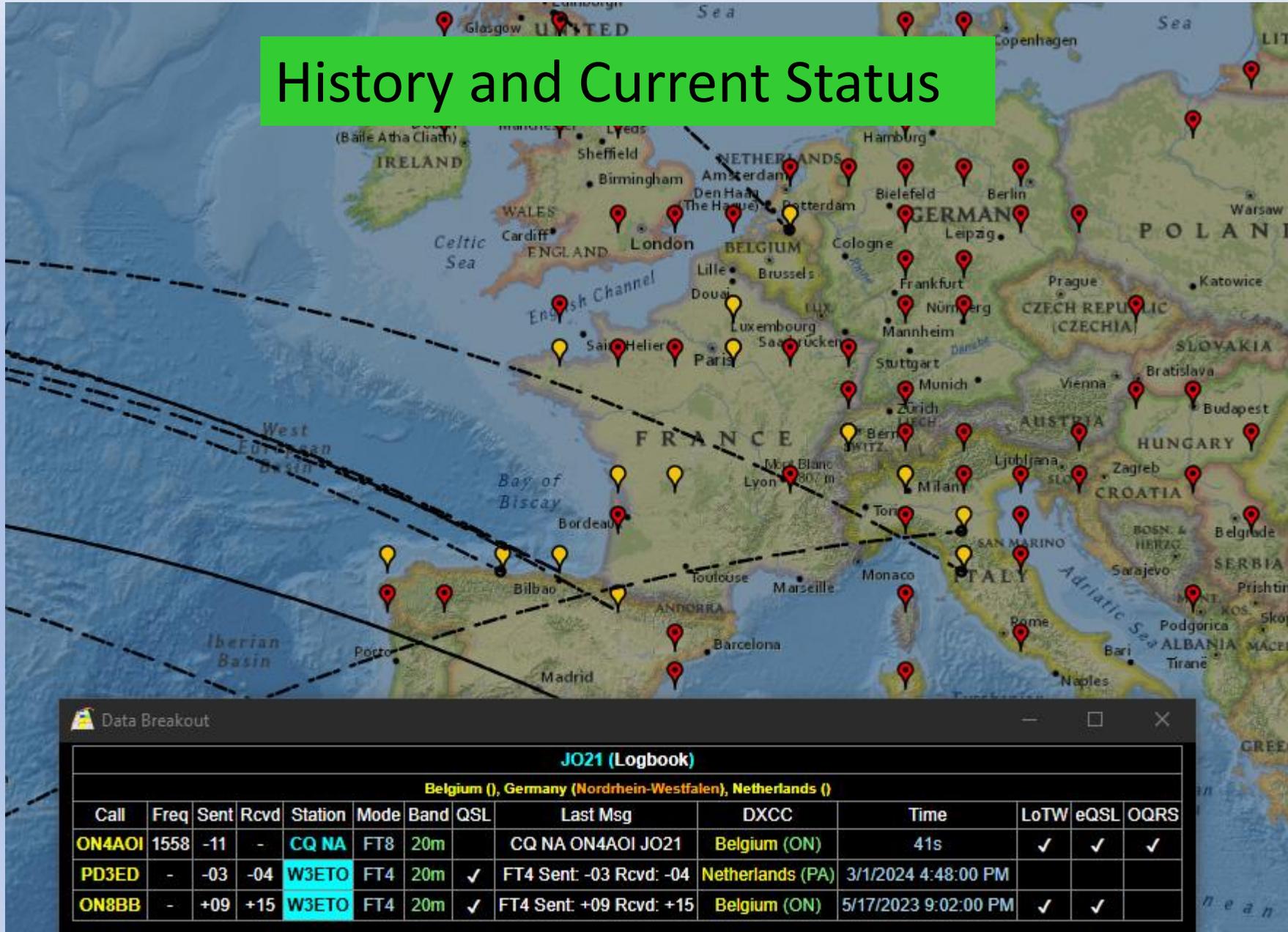
Rx Calls **278** QSO **5645**
Rx DXCC **32** QSL **3877**
Clear Live Clear Log

Map View Filters

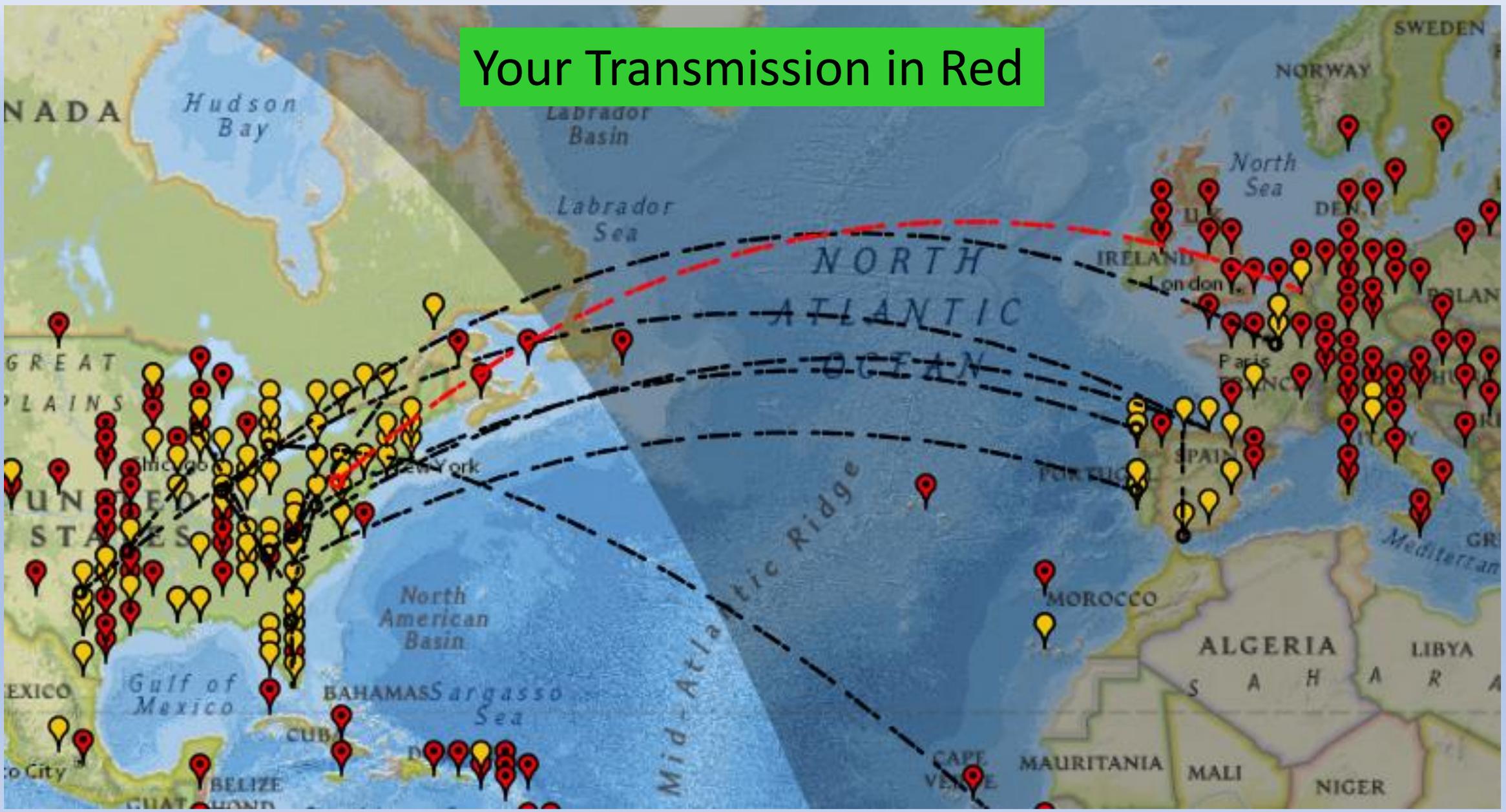
Band **Auto**
Mode **Digital**
Prop **Mixed**
Data **Logbook & Live**
Award **None**

QTH MH 4
ADIF
Kp 4
LOG LotW LOG Club

History and Current Status



Your Transmission in Red

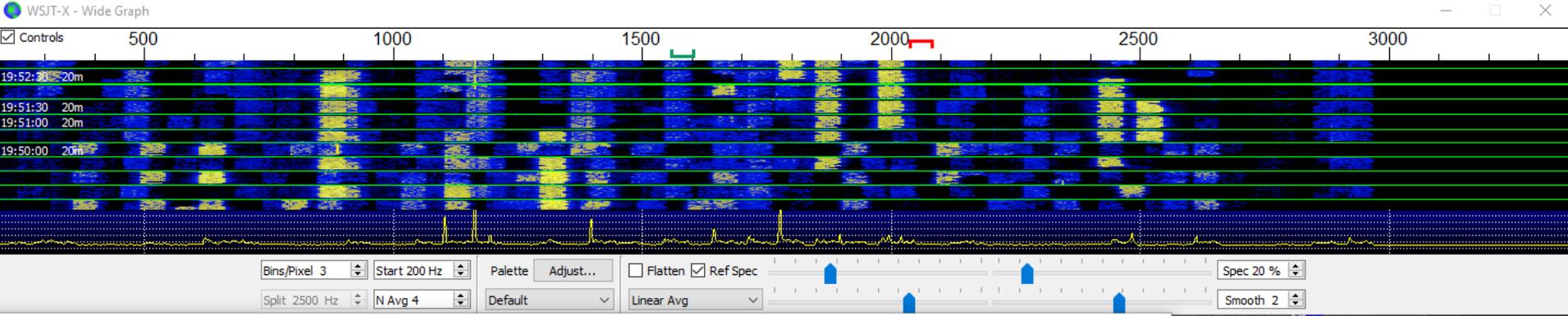


Typical QSO Exchange

- ON4AOI From Belgium calling
 - CQ for North America
- I click on it and call him
 - Usually, 3 or 4 times then pause
- ON4AOI calls me with -10 Signal
- I respond with Receive -17
- Received with 73
- I say 73
- The contact gets auto logged

| | | | | | | |
|-------------------|---------------|-----|-----------------|---|------------------------------|---------|
| 194930 | -17 | 0.1 | 314 | ~ | CQ TY5AD JJ16 | Benin |
| 195000 | -21 | 0.1 | 314 | ~ | CQ TY5AD JJ16 | Benin |
| 195015 | Tx | | 2037 | ~ | TY5AD W3ETO FN10 | |
| 194945 | -13 | 0.2 | 1558 | ~ | CQ NA ON4AOI JO21 | Belgium |
| 195030 | Tx | | 2037 | ~ | ON4AOI W3ETO FN10 | |
| 195045 | -2 | 0.2 | 1549 | ~ | <FM/UT5UGR> F5IYE JN05 | |
| 195100 | Tx | | 2037 | ~ | ON4AOI W3ETO FN10 | |
| 195115 | -3 | 0.1 | 1550 | ~ | <FM/UT5UGR> F5IYE JN05 | |
| 195130 | Tx | | 2037 | ~ | ON4AOI W3ETO FN10 | |
| 195145 | -4 | 0.2 | 1549 | ~ | <FM/UT5UGR> F5IYE JN05 | |
| 195145 | -17 | 0.2 | 1558 | ~ | W3ETO ON4AOI -10 | |
| 195200 | Tx | | 2037 | | ON4AOI W3ETO FN10 | |
| 195201 | Tx | | 2037 | ~ | ON4AOI W3ETO R-17 | |
| 195203 | Tx | | 2037 | ~ | ON4AOI W3ETO R-17 | |
| 195215 | 1 | 0.3 | 1550 | ~ | <FM/UT5UGR> F5IYE JN05 | |
| 195215 | -17 | 0.2 | 1558 | ~ | W3ETO ON4AOI RR73 | |
| 195230 | Tx | | 2037 | ~ | ON4AOI W3ETO 73 | |

Disregard – Had Auto Unchecked



WSJT-X v2.7.0 by K1JT et al.

Configurations View Mode Decode Save Tools Help

| Band Activity | | | | | | Rx Frequency | | | | | |
|-----------------|-----|------|------|-----------------------|----------|--------------|-----|-----|------|--------------------------|---------|
| UTC | dB | DT | Freq | Message | | UTC | dB | DT | Freq | Message | |
| 195115 | -24 | 0.1 | 400 | ~ CQ EA5TT IM99 | Spain | 194130 | -14 | 0.1 | 315 | ~ CQ TY5AD JJ16 | Benin |
| 195115 | -23 | 0.3 | 2768 | ~ CQ EC1ALT IN73 | Spain | 194148 | Tx | | 2037 | ~ TY5AD W3ETO FN10 | |
| ----- 20m ----- | | | | | | 194830 | -23 | 0.1 | 314 | ~ CQ TY5AD JJ16 | Benin |
| 195145 | 2 | 0.3 | 463 | ~ CQ POTA KE8YVG EM89 | U.S.A. | 194900 | -16 | 0.1 | 315 | ~ CQ TY5AD JJ16 | Benin |
| 195145 | 17 | -0.2 | 1977 | ~ CQ KB1EFS FN14 | U.S.A. | 194930 | -17 | 0.1 | 314 | ~ CQ TY5AD JJ16 | Benin |
| 195145 | -6 | -0.1 | 1714 | ~ CQ KJ5KON EM54 | U.S.A. | 195000 | -21 | 0.1 | 314 | ~ CQ TY5AD JJ16 | Benin |
| 195145 | -6 | 2.0 | 1770 | ~ CQ KOFRY EM79 | U.S.A. | 195015 | Tx | | 2037 | ~ TY5AD W3ETO FN10 | |
| 195145 | 1 | 0.4 | 2884 | ~ CQ WA4TED EM75 | U.S.A. | 194945 | -13 | 0.2 | 1558 | ~ CQ NA ON4AOI JO21 | Belgium |
| 195145 | -18 | 0.3 | 2769 | ~ CQ EC1ALT IN73 | Spain | 195030 | Tx | | 2037 | ~ ON4AOI W3ETO FN10 | |
| 195145 | -21 | 0.3 | 597 | ~ CQ LZ3CB RN32 | Bulgaria | 195045 | -2 | 0.2 | 1549 | ~ <FM/UTSUGR> F5IYE JN05 | |
| 195145 | -15 | 0.1 | 248 | ~ CQ KD2YCK FN20 | U.S.A. | 195100 | Tx | | 2037 | ~ ON4AOI W3ETO FN10 | |
| 195145 | -15 | 0.2 | 1799 | ~ CQ EA7BHO IM07 | Spain | 195115 | -3 | 0.1 | 1550 | ~ <FM/UTSUGR> F5IYE JN05 | |
| 195145 | -15 | 1.9 | 688 | ~ CQ WA7PVE CN07 | U.S.A. | 195130 | Tx | | 2037 | ~ ON4AOI W3ETO FN10 | |
| 195145 | -18 | 0.1 | 1789 | ~ CQ ISHLK JN53 | Italy | 195145 | -4 | 0.2 | 1549 | ~ <FM/UTSUGR> F5IYE JN05 | |
| ----- 20m ----- | | | | | | 195145 | -17 | 0.2 | 1558 | ~ W3ETO ON4AOI -10 | |
| 195215 | 6 | 0.3 | 2920 | ~ CQ POTA W8TMB EN82 | U.S.A. | 195200 | Tx | | 2037 | ~ ON4AOI W3ETO FN10 | |
| 195215 | 0 | -0.0 | 1714 | ~ CQ KJ5KON EM54 | U.S.A. | 195201 | Tx | | 2037 | ~ ON4AOI W3ETO R-17 | |
| 195215 | 2 | 0.4 | 2884 | ~ CQ WA4TED EM75 | U.S.A. | 195203 | Tx | | 2037 | ~ ON4AOI W3ETO R-17 | |
| 195215 | -13 | 0.3 | 599 | ~ CQ LZ3CB RN32 | Bulgaria | 195215 | 1 | 0.3 | 1550 | ~ <FM/UTSUGR> F5IYE JN05 | |
| 195215 | -9 | 0.2 | 1050 | ~ CQ W7PK DM41 | U.S.A. | 195215 | -17 | 0.2 | 1558 | ~ W3ETO ON4AOI RR73 | |
| 195215 | -3 | 2.1 | 1769 | ~ CQ KOFRY EM79 | U.S.A. | 195230 | Tx | | 2037 | ~ ON4AOI W3ETO 73 | |

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

14.074 000

TX 2037 Hz

RX 1558 Hz

Report -17

Auto Seq

CQ: Max Dist

2025 Dec 04 19:52:54

After Contact Auto Log Window ->

EasyPal

Callsign Lookup

Callsign **ON4AOI** Lookup

| | |
|--------------|---------------------------------|
| Confirmed | 10m, FT8 |
| Last QSO | 10m, FT8 11/5/2025 12:03:00 PM |
| Belgium (ON) | 80m 40m 30m 20m 17m 15m 12m 10m |

| Details | |
|------------|-----------------|
| Biography | Link |
| Codes | ETP |
| Aliases | ON1AOI |
| DXCC | 209 - Belgium |
| CQ zone | 14 |
| ITU zone | 27 |
| Latitude | 51.030932 |
| Longitude | 4.102085 |
| Distance | 3793mi |
| Azimuth | 49° |
| Grid | JO21BA |
| GT Grid | JO21 |
| TW | Yes |
| DSL | Yes |
| Direct QSL | Yes |
| Source | QRZ.com |
| Member | ✓ (29 Nov 2025) |
| Member | ✓ |
| Log QRS | ✓ |
| Scheduled | Yes |

ON4AOI

GUY DEWAELENS
DIJKSTRAAT, 77-79
9200 DENDERMONDE

WSJT-X v2.7.0 by K1JT et al. - Log QSO

Click OK to confirm the following QSO:

| Call | Start | End |
|--------|--------------------|--------------------|
| ON4AOI | 12/4/2025 19:51:45 | 12/4/2025 19:52:30 |

| Mode | Band | Rpt Sent | Rpt Rcvd | Grid | Name |
|------|------|----------|----------|------|------|
| FT8 | 20m | -17 | -10 | JO21 | |

Tx power: 50

Comments: FT8 Sent: -17 Rcvd: -10

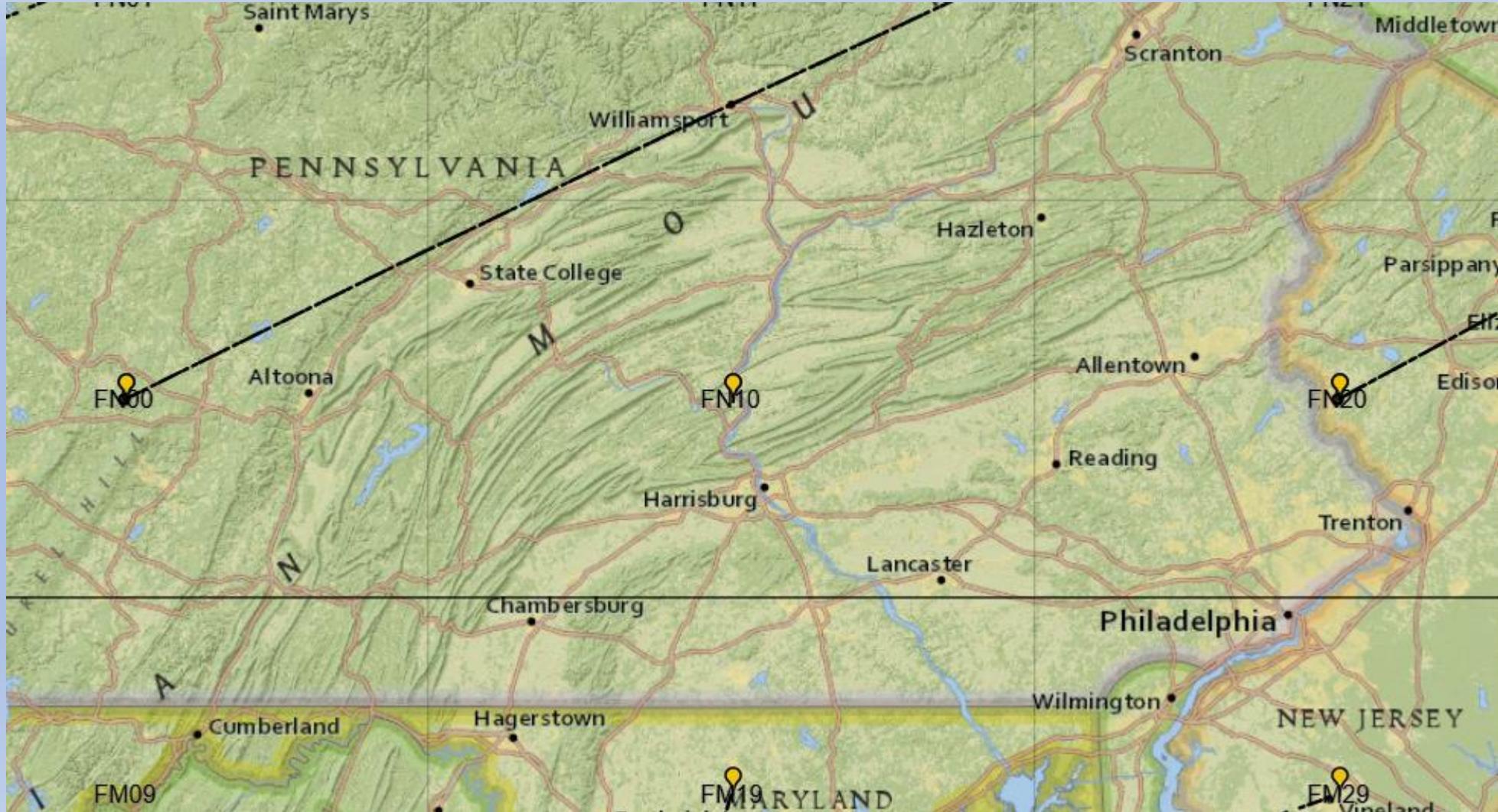
Operator: []

Exch sent: [] Rcvd: []

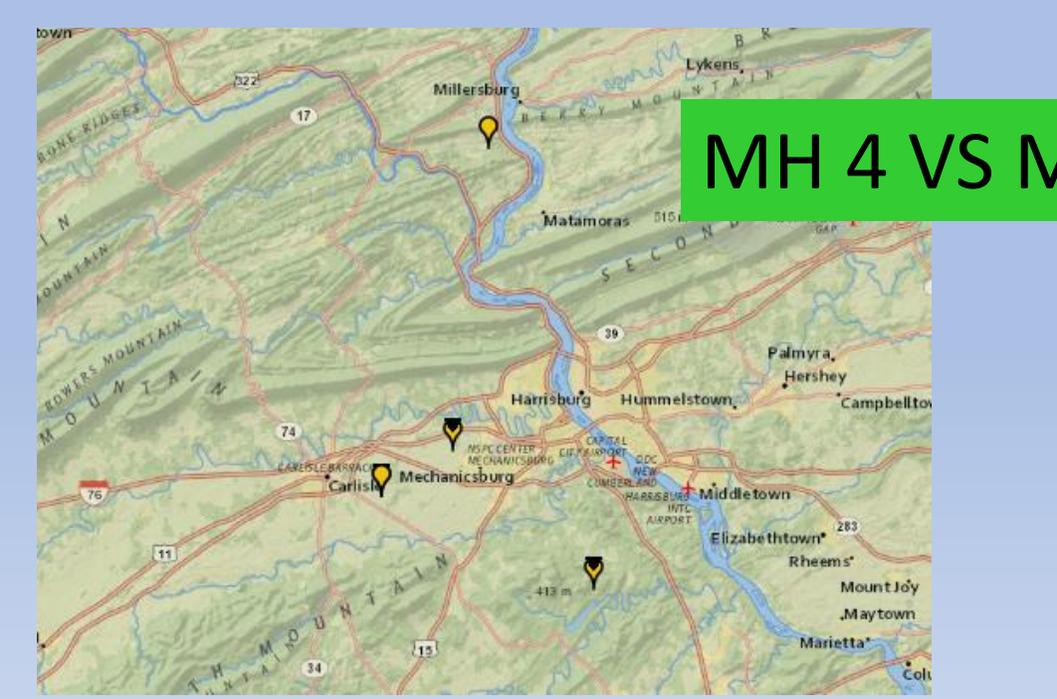
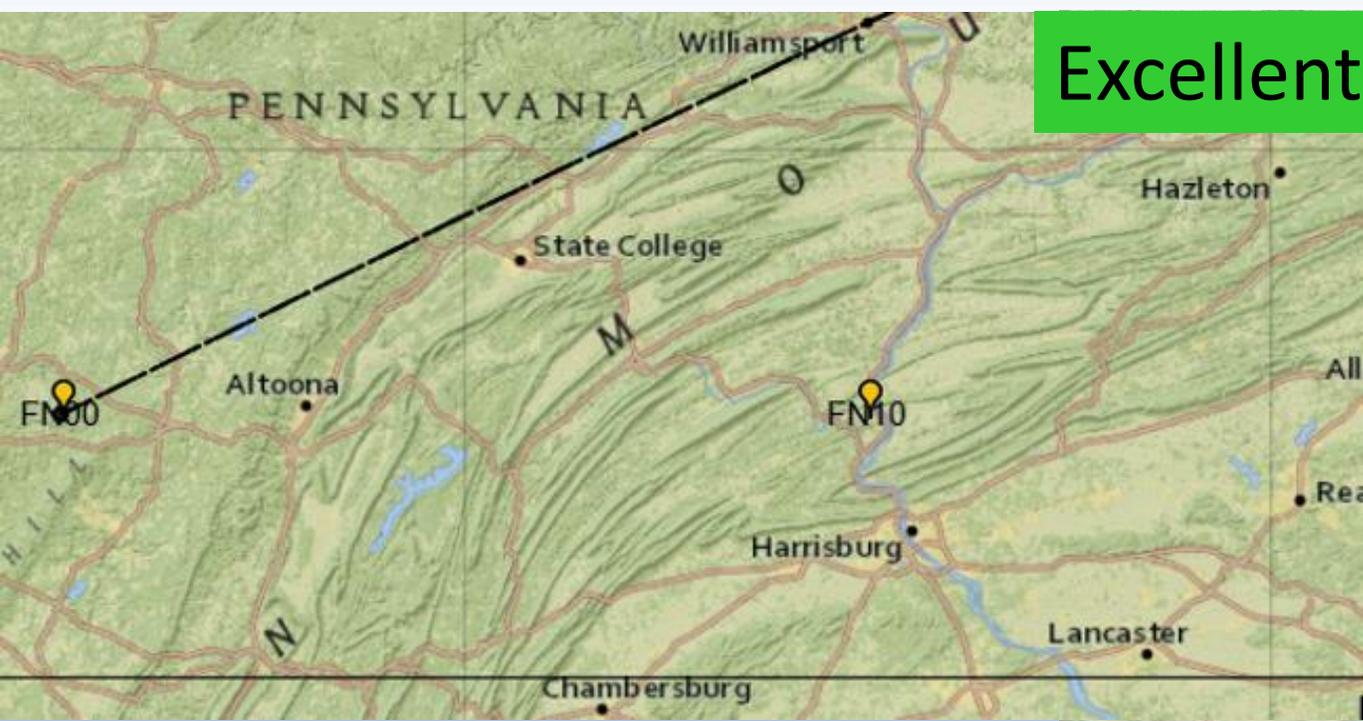
Prop Mode: []

OK Cancel

Multiple maps to choose – Contact Always in Center of Grid Square



Excellent levels of Zoom – World Wide



MH 4 VS MH 6



| Band Activity | | | | | | Rx Frequency | | | | | |
|---------------|-----|------|------|---------|--------------------------|--------------|-----|-----|------|---------|----------------------|
| UTC | dB | DT | Freq | Message | | UTC | dB | DT | Freq | Message | |
| 201000 | 2 | 0.3 | 1596 | ~ | CQ AA0AM EN31 U.S.A. | 195245 | -14 | 0.2 | 1558 | ~ | CQ NA ON4AOI JO21 B |
| 201000 | -3 | 0.1 | 1546 | ~ | W8TMB WA0LPV EN34 | 195315 | 0 | 0.1 | 1550 | ~ | <FM/UT5UGR> F5IYE JN |
| 201000 | 1 | 0.1 | 1586 | ~ | W3YNI WA4KJH RR73 | 195315 | -19 | 0.2 | 1558 | ~ | CQ NA ON4AOI JO21 B |
| 201000 | -13 | 0.1 | 1419 | ~ | N8UVM NOBTN EM28 | 195345 | 0 | 0.2 | 1550 | ~ | <FM/UT5UGR> F5IYE JN |
| 201000 | -6 | 0.7 | 1158 | ~ | <KD2RUY> KI4JMH/9QRP RRR | 195415 | 2 | 0.2 | 1550 | ~ | <FM/UT5UGR> F5IYE JN |
| 201000 | 4 | -0.1 | 1649 | ~ | CQ VO1DRD GN38 Canada | 195745 | -9 | 0.0 | 1548 | ~ | XE1EE IT9PQO JM78 |
| 201000 | -8 | 0.1 | 1703 | ~ | KE8X J73ESL -07 | 200030 | 0 | 2.4 | 1559 | ~ | ON4AOI WE8R EL99 |
| 201000 | -4 | 0.1 | 1493 | ~ | K6KBQ NOVTY RR73 | 200045 | -19 | 0.2 | 1558 | ~ | WE8R ON4AOI -11 |
| 201000 | 1 | 0.4 | 1644 | ~ | VO1YE K9RRW RR73 | 200100 | -3 | 1.2 | 1558 | ~ | ON4AOI WE8R R-09 |
| 201000 | -5 | 0.1 | 1555 | ~ | KM4IOA EA7ZW RRR | 200115 | -19 | 0.2 | 1558 | ~ | WE8R ON4AOI RR73 |
| 201000 | -15 | 0.2 | 2050 | ~ | W8TMB KR4CEL FM18 | 200130 | -5 | 1.4 | 1558 | ~ | ON4AOI WE8R 73 |
| 201000 | -9 | 0.1 | 1719 | ~ | CQ ZB2CM IM76 Gibraltar | 200145 | -23 | 0.2 | 1558 | ~ | CQ ON4AOI JO21 B |
| 201000 | -10 | 0.2 | 400 | ~ | CQ K4TMR EM62 U.S.A. | 200400 | -8 | 0.1 | 1554 | ~ | W4BXR KD9JYN R-07 |
| 201000 | -11 | 0.1 | 2769 | ~ | EC1ALT EA7JMI R-09 | 200430 | -14 | 0.1 | 1553 | ~ | W4BXR KD9JYN R-08 |
| 201000 | -17 | 0.1 | 1015 | ~ | CT1ESM W4PID 73 | 200630 | -3 | 0.1 | 1553 | ~ | W8TMB KD9JYN EM68 |
| 201000 | -5 | 0.1 | 2396 | ~ | CQ K4ISU EM75 U.S.A. | 200630 | -10 | 0.1 | 1556 | ~ | CQ EA7ZW IM77 S |
| 201000 | -11 | 0.1 | 690 | ~ | KM4IOA KO6CAV CM98 | 200700 | -5 | 0.1 | 1553 | ~ | W8TMB KD9JYN EM68 |
| 201000 | -19 | 0.2 | 1966 | ~ | CQ N0UUU EM29 U.S.A. | 200730 | -5 | 0.1 | 1554 | ~ | EA1FUY EA7ZW RRR |
| 201000 | -10 | 0.2 | 1189 | ~ | ON4AOI WP4PBS FK78 | 200900 | -8 | 0.1 | 1553 | ~ | WOHLE KD9JYN 73 |
| | | | | | | 200930 | -10 | 0.1 | 1555 | ~ | KM4IOA EA7ZW -17 |
| | | | | | | 201000 | -5 | 0.1 | 1555 | ~ | KM4IOA EA7ZW RRR |

FT8 Looking for Contacts

- New Contact on Band
 - Light Purple
- Band Active
- Click on Contact
 - Auto fill Call and responses

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

20m S **14.074 000**

Tx even/1st Hold Tx Freq

Tx 2037 Hz Rx 1558 Hz Report -17

Auto Seq CQ: Max Dist

DX Call: ON4AOI DX Grid: JO21

FT8 FT4 MSK Q65 JT65

2025 Dec 04 20:10:38

Generate Std Msgs Next

- ON4AOI W3ETO FN10
- ON4AOI W3ETO -17
- ON4AOI W3ETO R-17
- ON4AOI W3ETO RR73
- ON4AOI W3ETO 73
- CQ W3ETO FN10

Engage Contact



| | | | | | | | | |
|--------|-----|-----|------|---|--------|-------|------|-----------|
| 201000 | -5 | 0.1 | 1555 | ~ | KM4IOA | EA7ZW | RRR | |
| 201000 | -9 | 0.1 | 1719 | ~ | CQ | ZB2CM | IM76 | Gibraltar |
| 201115 | Tx | | 2037 | ~ | ZB2CM | W3ETO | FN10 | |
| 201145 | Tx | | 2037 | ~ | ZB2CM | W3ETO | FN10 | |
| 201215 | Tx | | 2037 | ~ | ZB2CM | W3ETO | FN10 | |
| 201245 | Tx | | 2037 | ~ | ZB2CM | W3ETO | FN10 | |
| 201330 | -12 | 0.3 | 1720 | ~ | CQ | ZB2CM | IM76 | Gibraltar |
| 201347 | Tx | | 2037 | ~ | ZB2CM | W3ETO | FN10 | |
| 201415 | Tx | | 1813 | ~ | ZB2CM | W3ETO | FN10 | |
| 201445 | Tx | | 1813 | ~ | ZB2CM | W3ETO | FN10 | |
| 201500 | -9 | 0.3 | 1721 | ~ | F8MGW | ZB2CM | -13 | |
| 201515 | 20 | 0.3 | 1721 | ~ | ZB2CM | W1DWE | FN34 | |
| 201530 | -7 | 0.1 | 1721 | ~ | F8MGW | ZB2CM | RR73 | |
| 201630 | -10 | 0.2 | 1721 | ~ | EA1CLT | ZB2CM | 73 | |

From GridTracker and QRZ

| UTC | dB | DT | Freq | Message | Rx Frequency |
|--------|-----|-----|------|---------------------|--------------|
| 195415 | 2 | 0.2 | 1550 | ~ <FM/UT5UGR> F5 | |
| 195745 | -9 | 0.0 | 1548 | ~ XE1EE IT9PQO JM78 | |
| 200030 | 0 | 2.4 | 1559 | ~ ON4AOI WE8R EL99 | |
| 200045 | -19 | 0.2 | 1558 | ~ WE8R ON4AOI -11 | |
| 200100 | -3 | 1.2 | 1558 | ~ ON4AOI WE8R R-09 | |
| 200115 | -19 | 0.2 | 1558 | ~ WE8R ON4AOI RR73 | |
| 200130 | -5 | 1.4 | 1558 | ~ ON4AOI WE8R 73 | |
| 200145 | -23 | 0.2 | 1558 | ~ CQ ON4AOI JO21 | Belgium |
| 200400 | -8 | 0.1 | 1554 | ~ W4BXR KD9JYN R-07 | |
| 200430 | -14 | 0.1 | 1553 | ~ W4BXR KD9JYN R-08 | |
| 200630 | -3 | 0.1 | 1553 | ~ W8TMB KD9JYN EM68 | |
| 200630 | -10 | 0.1 | 1556 | ~ CQ EA7ZW IM77 | Spain |
| 200700 | -5 | 0.1 | 1553 | ~ W8TMB KD9JYN EM68 | |
| 200730 | -5 | 0.1 | 1554 | ~ EA1FUY EA7ZW RRR | |
| 200900 | -8 | 0.1 | 1553 | ~ WOHLE KD9JYN 73 | |
| 200930 | -10 | 0.1 | 1555 | ~ KM4IOA EA7ZW -17 | |
| 201000 | -5 | 0.1 | 1555 | ~ KM4IOA EA7ZW RRR | |
| 201000 | -9 | 0.1 | 1719 | ~ CQ ZB2CM IM76 | Gibraltar |
| 201115 | Tx | | 2037 | ~ ZB2CM W3ETO FN10 | |
| 201145 | Tx | | 2037 | ~ ZB2CM W3ETO FN10 | |
| 201215 | Tx | | 2037 | ~ ZB2CM W3ETO FN10 | |

EasyPal
Callsign Lookup

Callsign **ZB2CM**
Gibraltar (ZB) **17m**

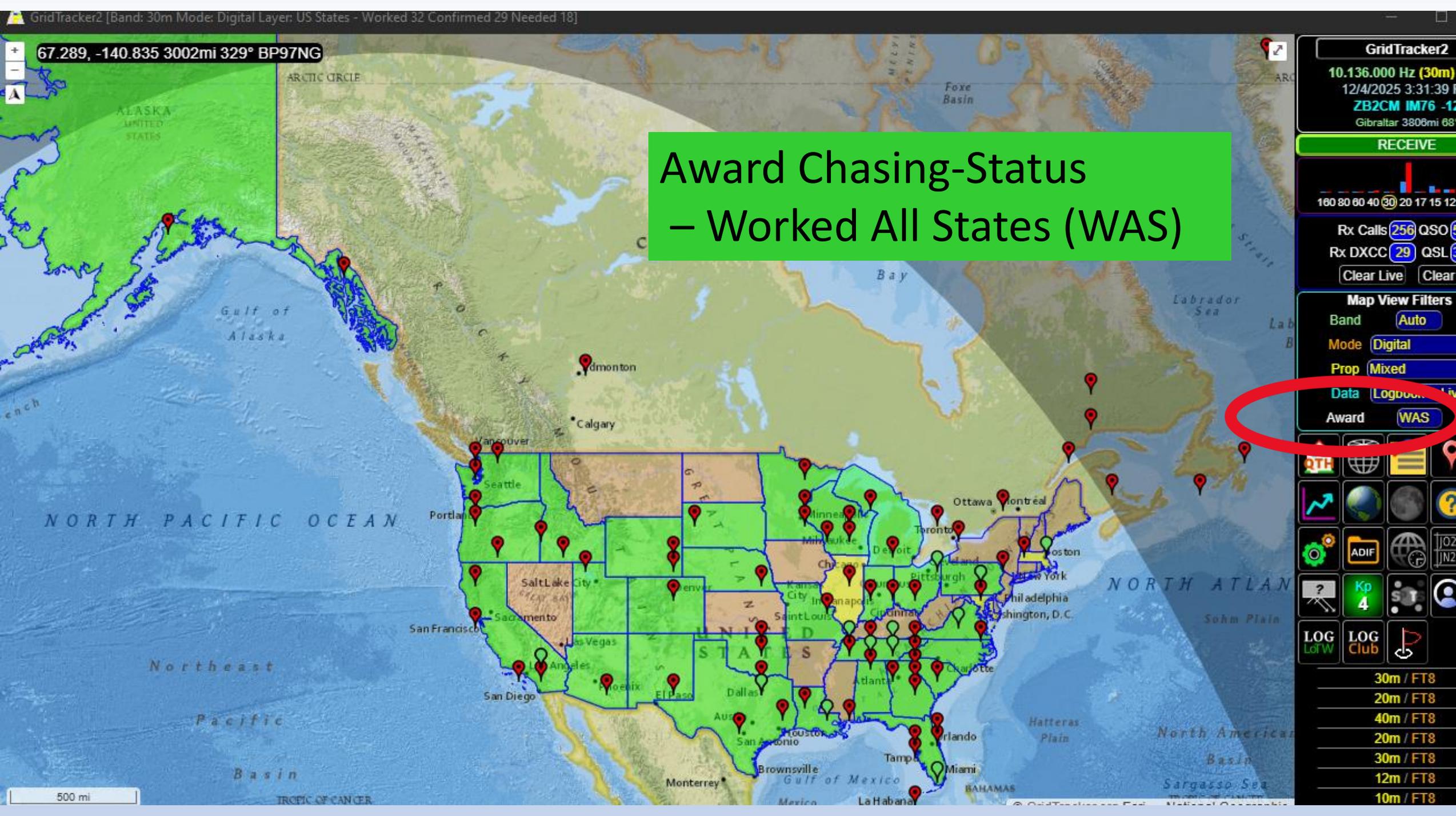
ZB2CM

Charlie Mascari
 33 Brother O'Brien House Glacis Estate
 Gibraltar, GX11 1AA
 Gibraltar

| Details | |
|-----------|-----------------|
| Biography | Link |
| Class | A |
| Codes | T |
| Aliases | ZB3C |
| DXCC | 233 - Gibraltar |
| CQ zone | 14 |
| ITU zone | 37 |
| Latitude | 36.125119 |
| Longitude | -5.348969 |
| Distance | 3800mi |
| Azimuth | 69° |
| Grid | IM76HD |
| Source | QRZ.com |

67.289, -140.835 3002mi 329° BP97NG

Award Chasing-Status – Worked All States (WAS)



GridTracker2
10.136.000 Hz (30m)
12/4/2025 3:31:39
ZB2CM IM76 -12
Gibraltar 3808mi 68

RECEIVE



Rx Calls **256** QSO
Rx DXCC **29** QSL
Clear Live Clear

Map View Filters
Band **Auto**
Mode **Digital**
Prop **Mixed**
Data **Logbook**
Award **WAS**

A grid of icons for various functions including a home button, a globe, a list, a search, a settings gear, an ADIF button, a Kp 4 indicator, a question mark, a log button, and a club button.

- 30m / FT8
- 20m / FT8
- 40m / FT8
- 20m / FT8
- 30m / FT8
- 12m / FT8
- 10m / FT8

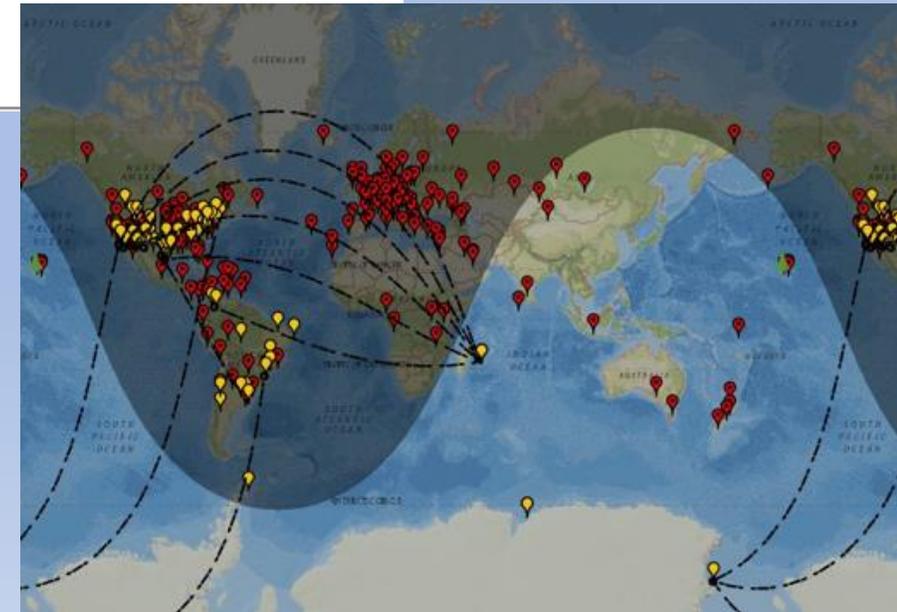
Rare DX

- TT1GD – CHAD
- See Everyone Calling
- **Make sure you can hear the station before calling them!**
- See who he is working (JH=Japan)
- **If you can Hear**
 - **Go for it!**

Time Slots and Pile-ups

```
203337 24 -0.0 2096 + TT1GD K9NU -15
203337 15 0.2 2515 + TT1GD AI4UC -10
203337 -5 0.1 807 + TT1GD CU6AD HM58
203337 -19 0.2 1358 + TT1GD IT9MRM JM77
203337 -13 0.0 1457 + TT1GD F5SPJ +01
203337 -14 0.3 1572 + TT1GD F4FTV JN15
----- 30m
203345 -16 0.1 565 + JH1ACA TT1GD RR73
----- 30m
203352 -12 -0.0 440 + TT1GD IK8PGE JN71
203352 -7 0.2 670 + TT1GD EA3RT JN01
203352 29 -0.3 925 + TT1GD KZ2I FM29
203352 2 0.2 1189 + TT1GD KP4KGP +04
203352 7 -0.0 1498 + TT1GD WD800J EM89
203352 -1 -0.0 1662 + TT1GD W4TV EL98
203352 21 -0.2 1936 + TT1GD N1NQD FN13
203352 27 -0.0 2097 + TT1GD K9NU -15
203352 14 0.2 2514 + TT1GD AI4UC -09
203352 -14 0.0 491 + TT1GD SV1HEP KM18
203352 -7 0.0 1452 + TT1GD F5OHS JN19
```

Hear Transmission



Demo Video

My FT8 GridTracker Setup

https://youtube.com/shorts/JKX65wKD0Wo?si=ALz0bCvC_vrSww3Z

Rare DX Contact

<https://youtu.be/hbNN-9BzC6s?si=lT1BkiBxzpH0rWFQ>

Pure accident

Final – MH and Propagation

<https://youtu.be/GnVch7p9mmw?si=Nx0wcnsvfT6QkcgI>

The word "QUESTIONS" is written in a bold, white, sans-serif font with a slight 3D effect. It is centered on a white rectangular background. Surrounding the text are numerous semi-transparent squares in various shades of blue and green, some overlapping each other and the text, creating a dynamic, abstract graphic design.

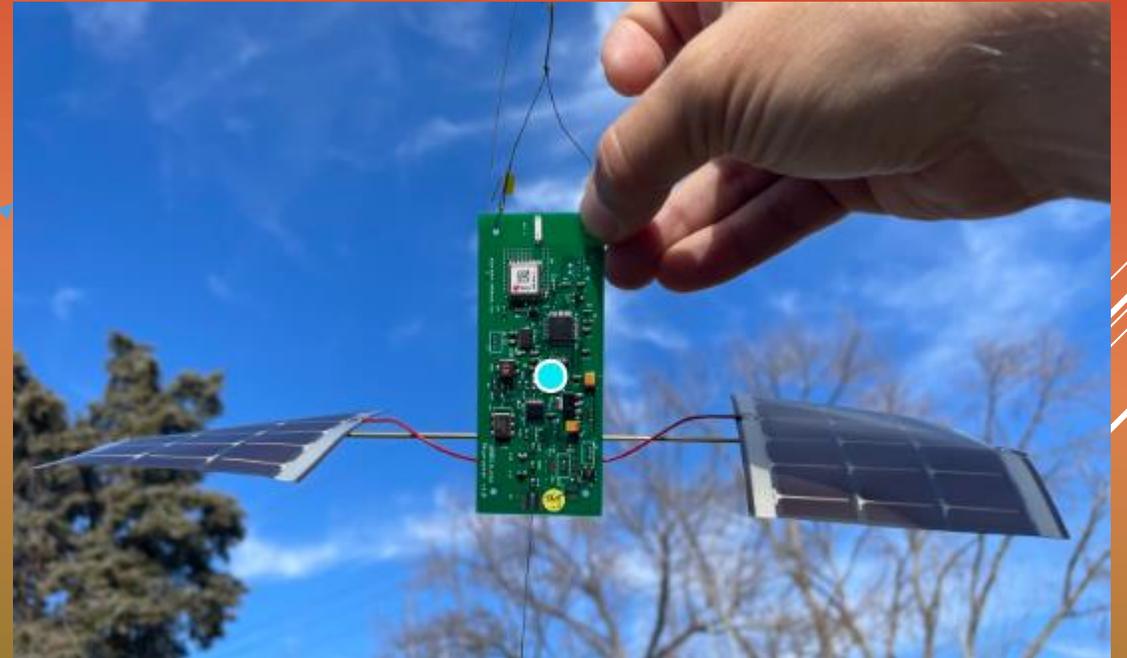
QUESTIONS

INFO:

APRS Balloon Launch

Update

- Balloons – Received ✓
 - APRS 2 Lite Board – Ordered ✓
 - Solar Panels – Ordered ✓
 - Super-Capacitors – Needed
-
- **Interested in Joining the Build Group Email**
W3ETOradio@gmail.com



2026 PRESENTATIONS:

| Meeting Date | Presentation Topic / Title | Name | Call Sign |
|--------------|------------------------------------|----------------|-----------|
| 1/20/2026 | Surface Mount Components | Jeff Orner | W3JKO |
| 2/17/2026 | Pillars of Radio | Hugh Irwin | K3ECT |
| 3/17/2026 | Hexbeam Antennas | Jerry Sodus | KM3K |
| 4/21/2026 | Balloon Launching | Dick Goodman | WA3USG |
| 5/19/2026 | Winlink Part 1 | Andrew Mummert | W3AND |
| 6/16/2026 | Winlink Part 2 | Andrew Mummert | W3AND |
| 7/21/2026 | Testing a Yagi/directional Antenna | Hugh Irwin | K3ECT |
| 8/18/2026 | Intro to Fox Hunting | Rick Stoner | KC3DRU |
| 9/15/2026 | Making a Go-Box / Go-Bag | Sean Schulze | KC3YWX |
| 10/20/2026 | Getting Started with CW | Emily Saldaña | WC3R |
| 11/17/2026 | EME Moon Bouce | John Jaminet | W3HMS |
| 12/15/2026 | Restoring a used radio from Ebay | Chaz Smith | KB3ZPB |
| 1/19/2027 | Setting up Ham Dashboard (VA3HDL) | Jeff Kisner | W3JWK |

BOARD ELECTIONS – 20 JAN 26

| Name | Call | Title | Term Ends |
|-----------------|--------|-------------------------|-----------|
| Ed Otto | W3ETO | President | 2026 |
| Jeff Kisner | W3JWK | V.P. | 2025 |
| Bob Single | N3ACP | Trustee/Net Coordinator | 2025 |
| Paul Harig | W3PTH | Recording Sec. | 2025 |
| Mike Giordano | K3ESQ | Treasurer | 2026 |
| Gary Cribbs | K3MGB | Director | 2026 |
| Brendan McGowen | KC3VEB | PIO, Web, Facebook | 2026 |
| Tracey Richard | WE3H | Membership | 2025 |

Candidates 2026

- Jeff Kisner
- Bob Single
- Paul Harig
- Chaz Smith
- Sean Schulze



GADGET OF THE MONTH –

Do you have a new Ham Toy that others may like to explore?

- ▶ New Antenna, Radio, HT, Battery box, flux-capacitor
- ▶ Volunteer for a short infomercial
- ▶ No need for a full presentation
- ▶ Works like Shack of the Month
- ▶ Just email me a photo or two and I'll call on you to talk about it – from your seat!

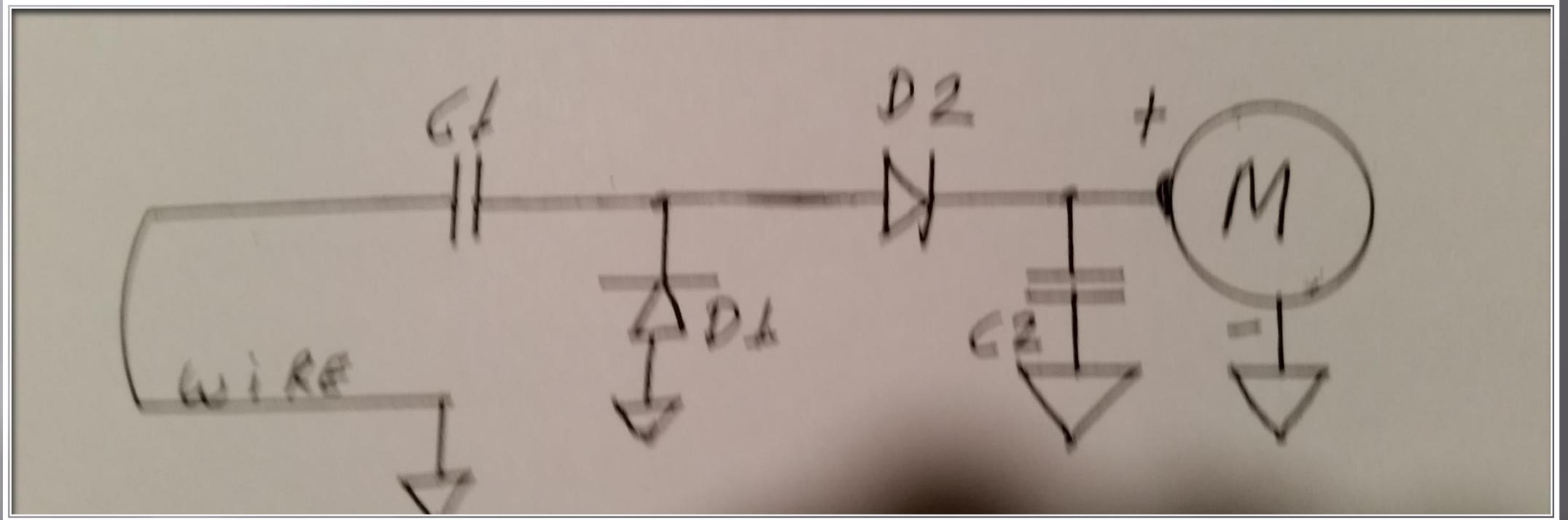


SMRA 16 DEC 25 MEETING GADGET: AN RF DETECTOR FOR 1-500 MHZ

John, W3HMS

The Gadget

- * Situation of use.....you need to know your rig has output!!!!
- * No modulation monitor, no rig drift info, no stability info...
- Just a simple: Am I radiating power?.....YES or NO!
- Ideal Project.....build something safe with or own hands!!!



The Super Complex Schematic

Parts List

Gadget Parts List

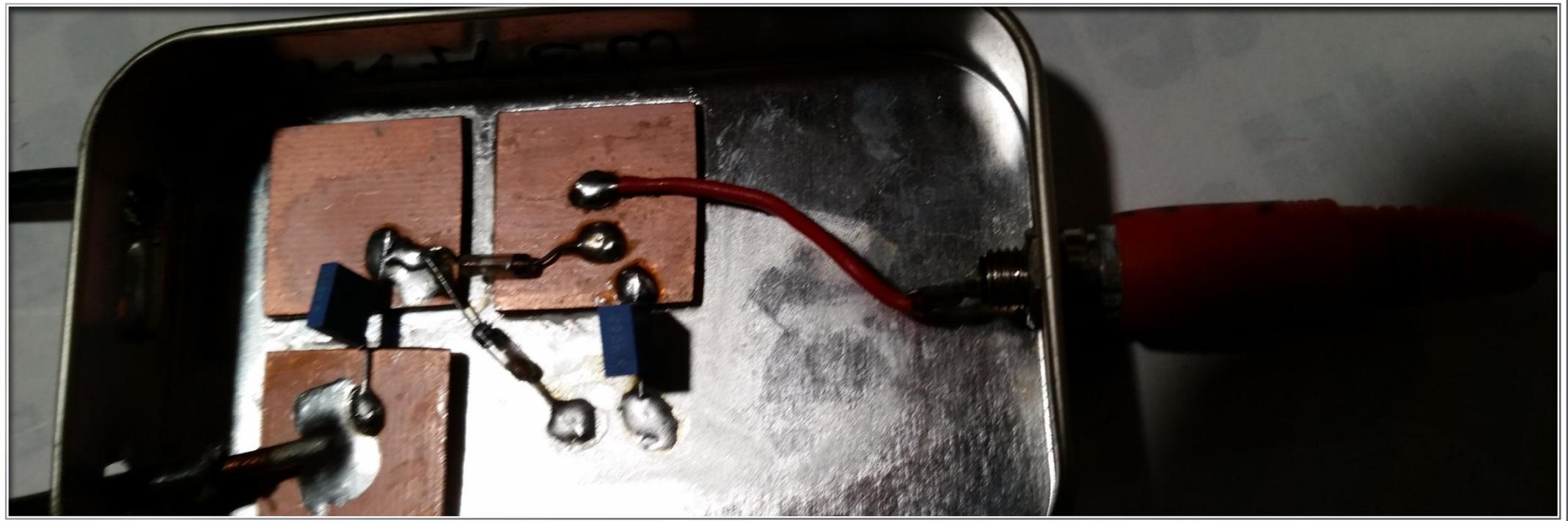
| Part | Price | Notes |
|-----------------------|---------------------|--------------------|
| Altoid Box | Quant \$0.00 | See friends |
| 10 in. Insulated Wire | 0 | See friends |
| Diodes 1N34 | 2 0.3 | |
| Caps .01 to.1 | 2 0.4 | |
| LED Red Yelc | 1 0.2 | |
| Total Cost | \$.90 | |



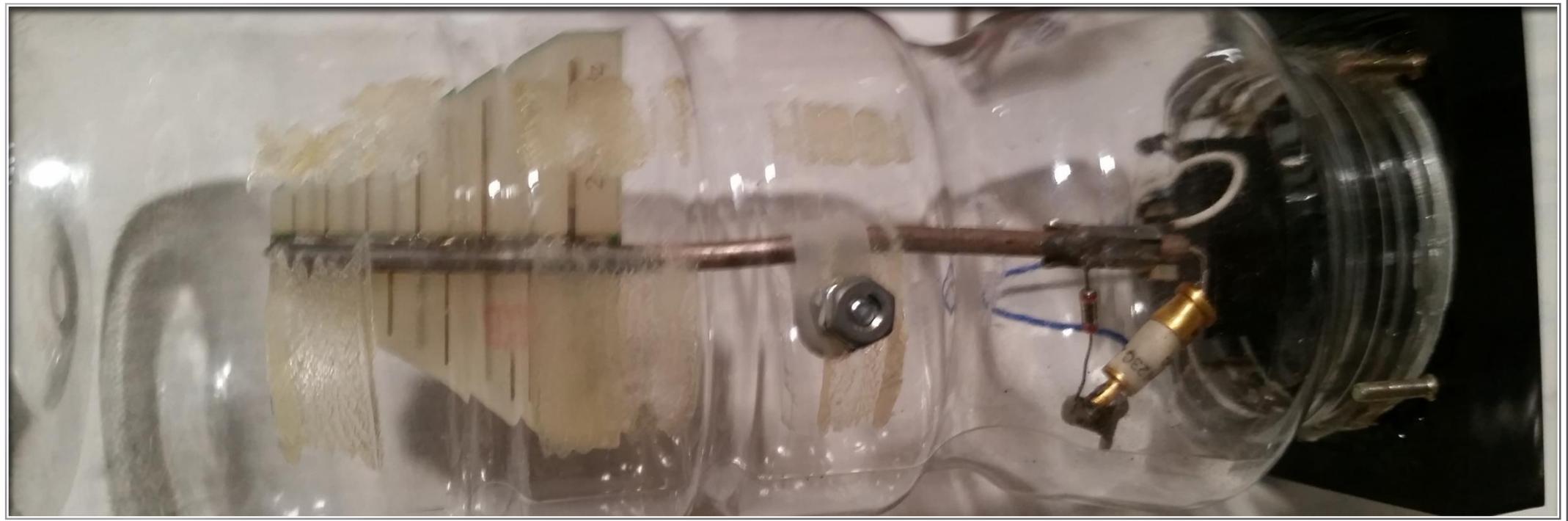
Altoid Boxes are free radio boxes!!!



What is under the hood?



Pads.....about $\frac{1}{2}$ inch square....not critical



Microwave FSM for 2-8 GHz w/MW diode

Some tests to show:

WSS/RFS 02/10/20 W3HMS Meter 20 micro-Amps to about 100 micro-amps

CCN Part Value

1. 2m and 440 MHz HT working
2. Cross polarized sensitivity
3. Checking HF RF signal output

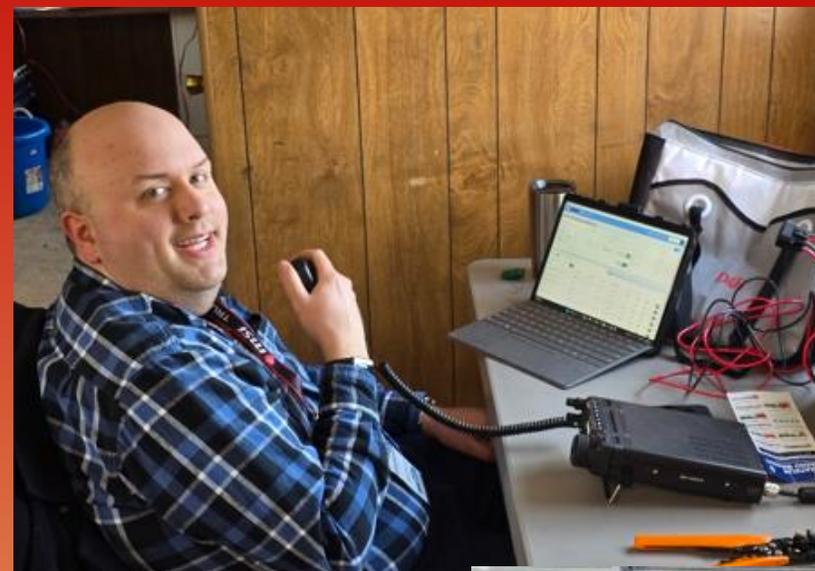
Loop Wire 10 inch #14 Insulated house wire C1, C2 Cap .01 to .10 15 VDC and Up wire leads D1, D2 Diode 1N34A or 1N914 or BAV-21 HV diode M

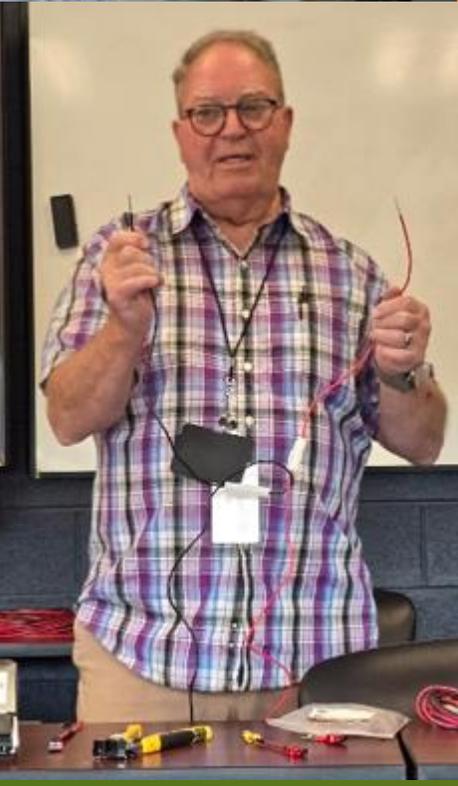
Summary

- ▣ So, nothing beats an FSM for knowing the signal is going out!!!
 - ▣ Build something and learn another dimension of ur hobby
 - ▣ Start an easy but usable project!!!!
-
- ▣ 73, John, W3HMS

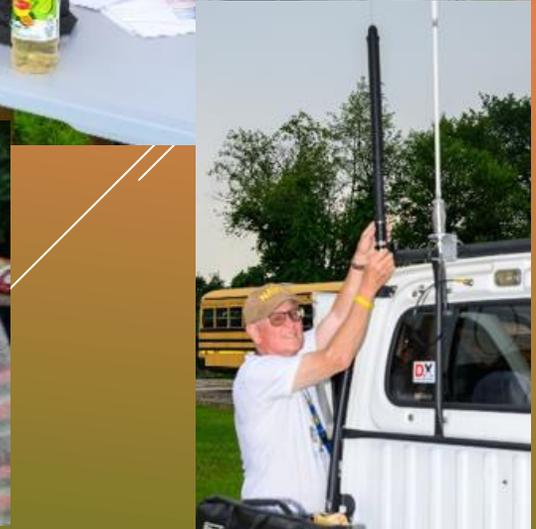
2025 YEAR IN REVIEW

- Winter Field Day @ 10 Degrees
- PowerPole and Coax connector Classes
- Taught several Technician classes
- Carlisle Christian Academy semester Class
- Moved to Digital testing
- QRP outings
- Dinners out with meetings
- Motorcycle Race Comms
- Digital Net on Sundays
- Summer Fair
- Field Day
- Fox Hunt Education and Build x2
- National Night Out
- Army 250 Yrs Special Event Station
- Fox Hunt Actual
- Balloon Launch Education and planning
- AREA SET exercise
- Many Educational Presentations at MTM and General meetings
- Repeater Move Prep
- **Had fun with and learning about radio**



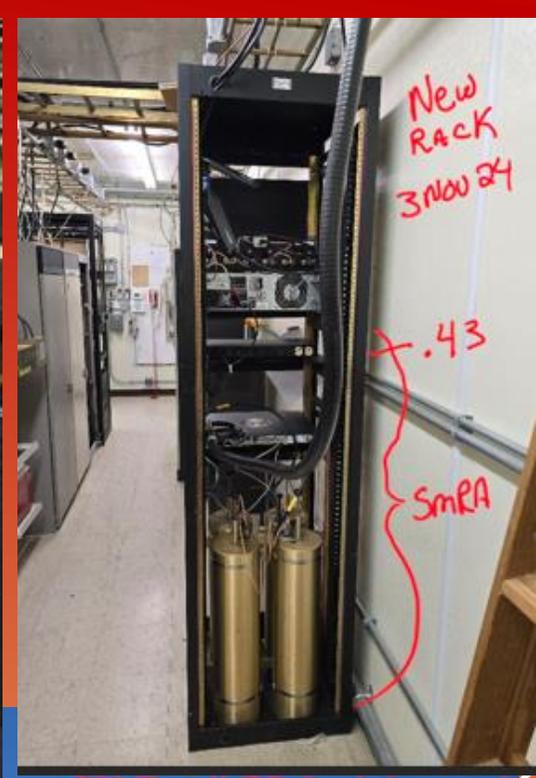












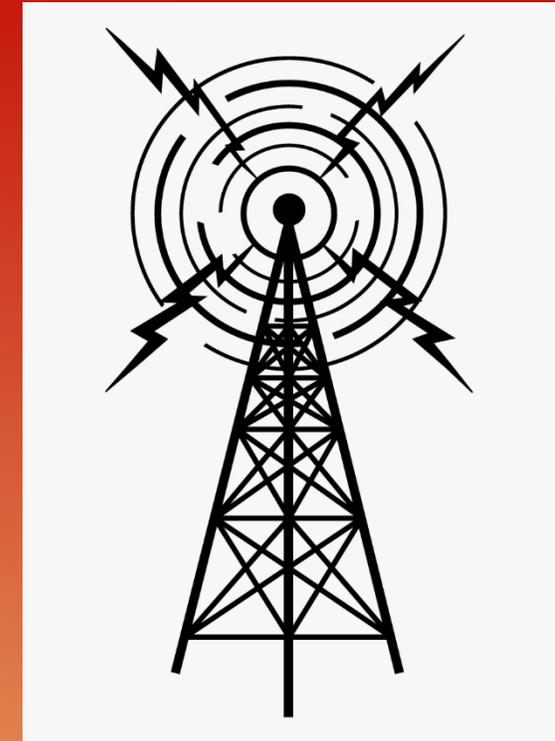
NEW SMRA NETS:

- ▶ 1) **Monday Night Net** – Test your Radio, Get Club info
- ▶ 2) **The Elmer TechNet** on Monday Nights following our Net
 - ▶ Ask Questions and discuss radio
 - ▶ Everyone has something to contribute!
- ▶ 3) **Digital Net** on Sunday Nights 1900-2000
 - ▶ SMRA .43 Repeater on alternating weeks with York Club Repeater
 - ▶ York Repeater – 146.970, -6KHz (tone 127.3 (better coverage) or 123



MONDAY NIGHT NETS:

- Seeing an Increased usage of the Monday Night Nets:
 - It's Working!! Let's keep it up – Have some Traffic to make it interesting for all!
 - Try contacting repeaters with Different modes and tell us what you're are trying
 - Using **Echolink** as a backup from a Cell phone Craig improved Echolink on .43 - Give it a try!
 - Use and HT or Mobile rig from a different location
 - Different antenna
 - Remote power
 - Cross Band Repeat from an HT
- ARRL Audio News will air at 2010 before the 2030 Monday Net



JOIN THE WORLD OF AMATEUR EMERGENCY RADIO SERVICE!



Want to send worldwide messages to phones and e-mail from your handheld?



How about sending digital messages across counties and agencies *without* the Internet?



Or linking your radio into the Internet to support the emergency services of agencies like the Red Cross

You can do this, and more, to support your community as a member of ARES — the Amateur Radio Emergency Services team.

LEARN HOW: _____

Attend the next ARES meeting **Thursday January 8**
Cumberland County Public Safety Building @ 7 pm



OFFICER REPORTS

- **Secretary** – Paul W3PTH
- **Treasurer** – Mike K3ESQ
- **VP** – Jeff W3JWK
- **Membership** – Tracey WE3H
- **PAIO** – Brendan KC3VEB

HOW SIGNAL STRENGTH WORKS IN dB

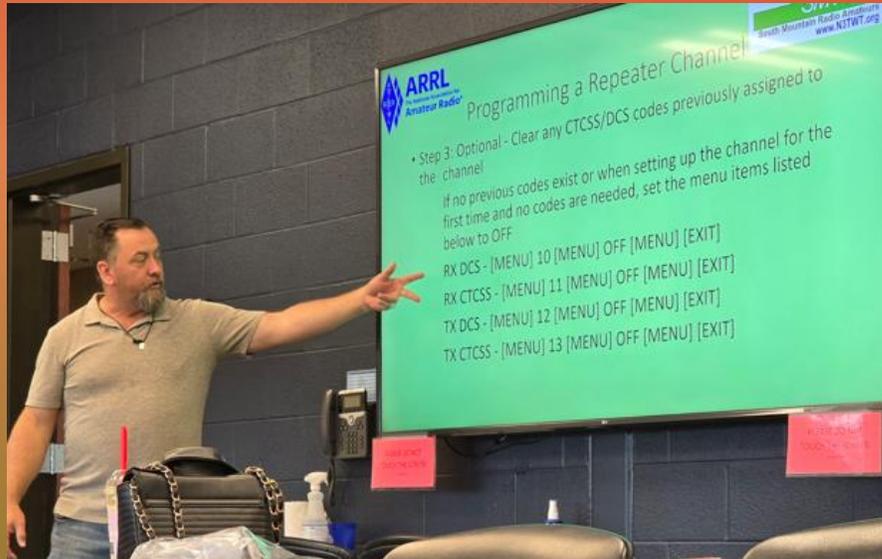
dB (decibel) is not a unit of power. It is a comparison between two power levels



| dB Change | Meaning |
|-----------|----------------------------|
| +3 dB | Power doubles |
| -3 dB | Power halves |
| +10 dB | Power increases 10 times |
| -10 dB | Power reduces to one-tenth |

SMRA TECHNICIAN CLASS:

- Bosler Library -12 –January 26
- Fredericksen Library – 29 Jan 26



Free Amateur Radio Technician License Classes offered by the South Mountain Radio Amateur (SMRA) Club in Carlisle, PA.

Each complete course consists of five two-hour class sessions on Mondays from 5:30 to 7:30 PM, one VE Test Session and an additional two-hour session for those that pass the test to receive training on their new radio. It takes seven weeks to complete.

The next SMRA Technician Class will be held at:

The Bosler Memorial Library, 158 West High St., Carlisle, PA 17013

[Note: A textbook (\$32.00) and a VE/FCC test (\$14.00) will be provided free by SMRA]

- **Monday January 12, 2026 – Welcome to Amateur Radio, Radio Signals Fundamentals, and Electricity Components and Circuits**
Instructor: Ed W3ETO
 - Read Chapter 1 (no questions on exam), Chapter 2 (35 questions), and Chapter 3 (91 questions, but many of these questions are different versions of the same calculation)
- **Monday January 26, 2026 – Propagation, Antennas, and Feedlines**
Instructor: Keith KC3JVG
 - Read Chapter 4 (66 questions)
- **Monday February 2, 2026 – Amateur Radio Equipment**
Instructor: Chaz KC3ZPB
 - Read Chapter 5 (56 questions)
- **Monday February 9, 2026 – Communicating with Other Hams and Licensing Regulations** Instructor: Rick KC3DRU
 - Read Chapter 6 (63 questions) and Chapter 7 (30 questions)
- **Monday February 16, 2026 – Operating Regulations and Safety**
Instructor: Sean KC3YWX
 - Read Chapter 8 (32 questions) and Chapter 9 (43 questions)
- **Monday February 23, 2026 – VE Test for Technician License**
VE Team Leader: Don K3ZR
- **Monday March 2, 2026 – Students that pass the license exam and pay the FCC \$35.00 fee will receive a Baofeng UV-5R radio and be taught how to program and use it.**
Instructor: Norm AB3ZZ

To register for this class contact:

Bosler Memorial Library
158 West High ST.
Carlisle, PA 17013
717-243-4642

These classes are made possible by a grant from the Amateur Radio Digital Communications (ARDC) foundation www.ardc.net

AMSAT NEWS:

It's Broken

- ISS SSTV Event
- ~~Series 30 12 Nov - 20 Nov~~
- 12 Images
- 145.800 MHz
- Use and HT or better
- Decode with MMSSTV (PC) or Robot36 (android)
- iPhone (SSTV app)

<https://www.amsat.org/status/>

<https://www.ariss.org/upcoming-sstv-events.html>



Restart RS38S Cube Sat

72

12/16/2025

AMSAT NEWS:

via – RS-38S Cube Sat

- Small 3U (cubes)
- Robot 36 v PD120 (less quality)
- 12 Images
- UHF v VHF (need Doppler adjustments)
- Many images, not many good full ones
- Challenging
- RS-74S – Octopus??

<https://www.amsat.org/status/>

<https://www.ariss.org/upcoming-sstv-events.html>



73

12/16/2025

WINTER FIELD DAY :



- January 24th & 25th, 2026 = ESTA
- Winter Field Day and its core principles:
 - Natural disasters are unpredictable and can strike when you least expect them.
 - Your training and operating skills should not be limited to fair-weather scenarios.
 - Preparedness is the key to a professional and timely response during any event.
 - [Rules Found Here](#)
 - <https://winterfieldday.org/>



CONTEST CALENDAR FOR THE MONTH:

- Winter Field Day 1600Z, Jan 24 to 2159Z, Jan 25

CQ WW WPX Contest, SSB

- **0000Z, Mar 28 to 2400Z, Mar 29**

www.contestcalendar.com – Check out these Sites for lots of other contests!
<https://www.arrl.org/contest-calendar>
[CQ World Wide DX Contest - Home \(cqww.com\)](http://cqww.com)

SPECIAL EVENT STATIONS:

11/02/2025 | 50th Anniversary, Sinking of the SS Edmund Fitzgerald W8F W9F

Nov 2-Nov 15, 0000Z-2359Z, W8F, Livonia, MI..

Certificate. e-certificate, e-QSL only, W8F electronic ONLY via club website. livoniaarc.com

Certificates available at:
<https://livoniaarc.com/qsl/>



LARC
Livonia Amateur Radio Club
K8UNS • N8LPD

DOSSIN
GREAT LAKES
MUSEUM

W8F

Special Event Station 2025
Commemorating the 50th anniversary
of the loss of the SS Edmund Fitzgerald
The Livonia Amateur Radio Club

W3ETO

2025-11-07 15:57Z Freq: 7.036Mhz RST: 59 Mode: CW Oper: KB8TL QTH: Belleville, MI
2025-11-08 16:59Z Freq: 7.204Mhz RST: Mode: SSB Oper: W8F QTH: POTA US-1487

Honoring the 29 crew members who lost their lives on November 10, 1975

HAMFESTS:

[HTTPS://WWW.ARRL.ORG/HAMFESTS/SEARCH](https://www.arrl.org/hamfests/search)

- Winterfest January 2026 >> January 10, 2026, at the **Vietnam Veterans of America Post 542, 8000 Derry St, Harrisburg, PA 17111.**
- Volunteers are asked to arrive at 0500L for setup, doors open at 0600L with an end time of 1100L in order to be out of the VVA Bingo Hall by 1200L. Great door prizes for this event includes cash prizes as well as radio related trinkets that one must be there to win. Event Flyer coming soon.

WinterFest

HAMFEST/CONVENTION

01/10/2026

Start Date: 01/10/2026

End Date: 01/10/2026

Location: Vietnam Veterans Associan of America

8000 Derry Street

Harrisburg, PA 17101

Website: <http://www.w3uu.org>

Sponsor: Harrisburg Radio Amateurs Club

Type: ARRL Hamfest

Talk-In: 147.075 (123) or 717-979-9515

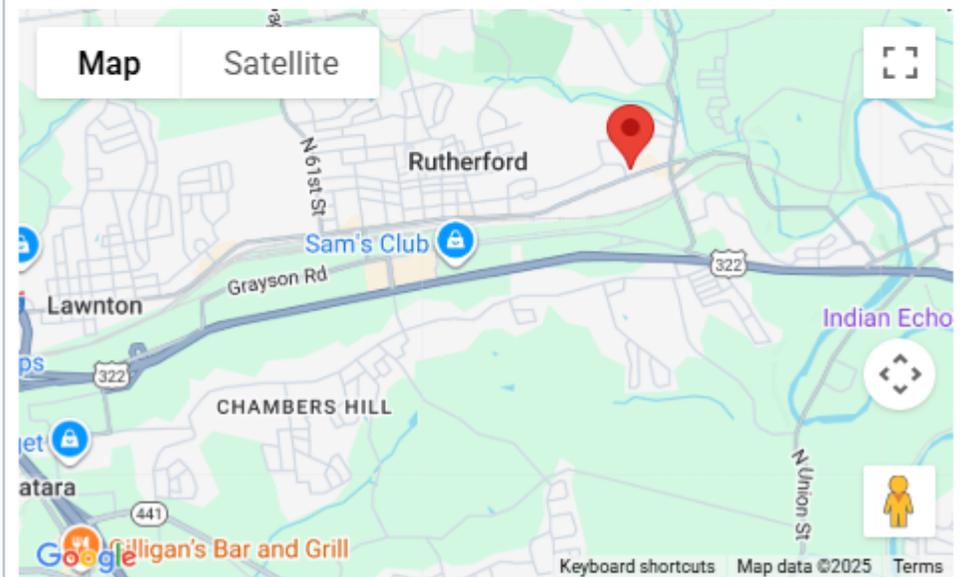
Public Contact: Terry Snyder , WB3BKN

PO Box 355 232 Art Drive Halifax, PA 17032-0355

Phone: 717-979-9515

Email: wb3bknjunk@gmail.com

Locations



ANNOUNCEMENTS & DATES:

▶ **Monthly Meet the Mentors**

▶ 1st Tuesday – 6 JAN 26 @ 1900 –EOC

▶ **Monthly SMRA ARES/ACS Training**

▶ 2nd Thursday (Physical or Virtual) 8 JAN @ 1900 –EOC

▶ **Monthly HAM Breakfast**

▶ 2nd Saturday – 20 DEC @ 0830 - Location: Brothers Restaurant

▶ **Monthly General Meeting**

▶ 3rd Tuesday – 20 JAN 26 @ 1900 - Location: EOC

▶ **Monthly QRP Dinners and Outings**

▶ 4th Tuesday (Generally in Winter) –27 JAN 26 @ 1730



EXECUTIVE BOARD MEETINGS

➤ Next Executive Board (EB) Meetings: **Open to all members** - second Tuesday of even months – or as specified. 5:30 PM dinner, 6:30 PM meeting, Hoss's, 61 Gettysburg Pike, Mechanicsburg.

➤ Calendar

➤ **20 Jan 26 – After the Meeting**

➤ **10 Feb**

➤ **14 Apr**

➤ **9 Jun**

➤ **11 Aug**

➤ **13 Oct**

➤ **8 Dec**



AROUND THE ROOM (TIME PERMITTING):

What did you do interesting in Ham Radio this month?

- ▶ Hamfest
- ▶ Contests
- ▶ Technical Accomplishments
- ▶ Awards
- ▶ Activities – Rare DX
- ▶ New Antenna/Radio



FINAL THOUGHTS:

Motion to Adjourn?

