

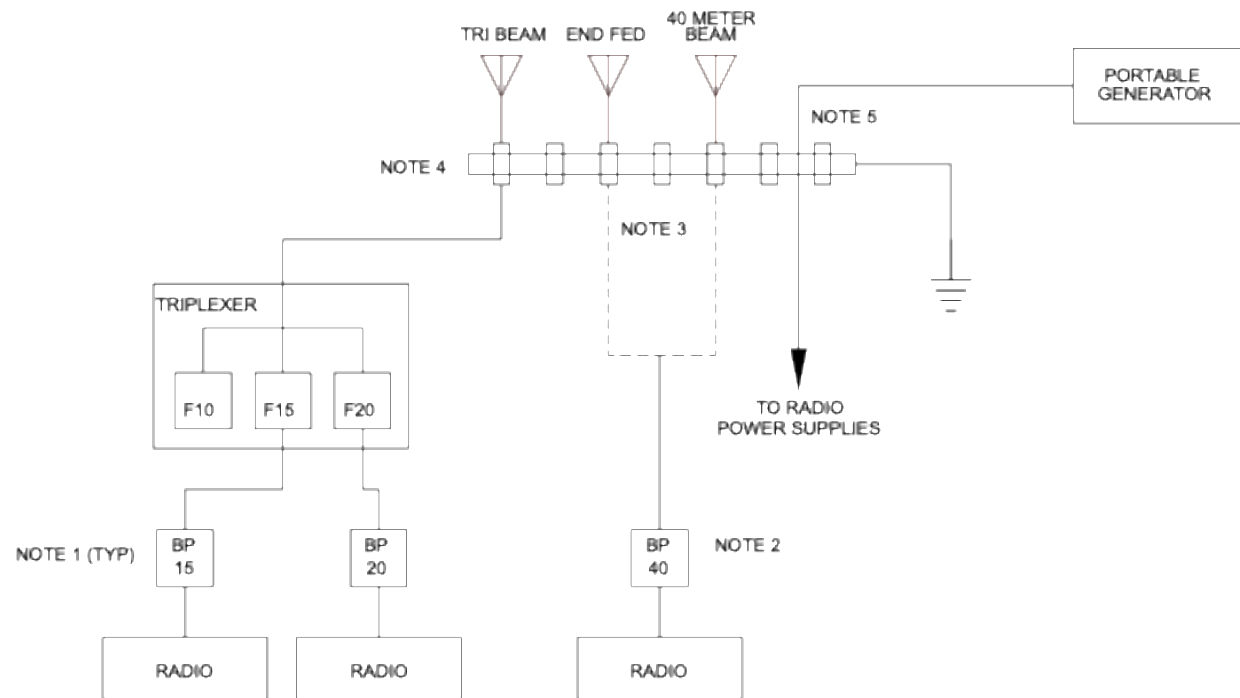
Additional Slides For August Meeting

Field Day

BARNSTABLE AMATEUR RADIO CLUB

FIELD DAY 2024

THE ADVENTURE OF IT ALL!



NOTES

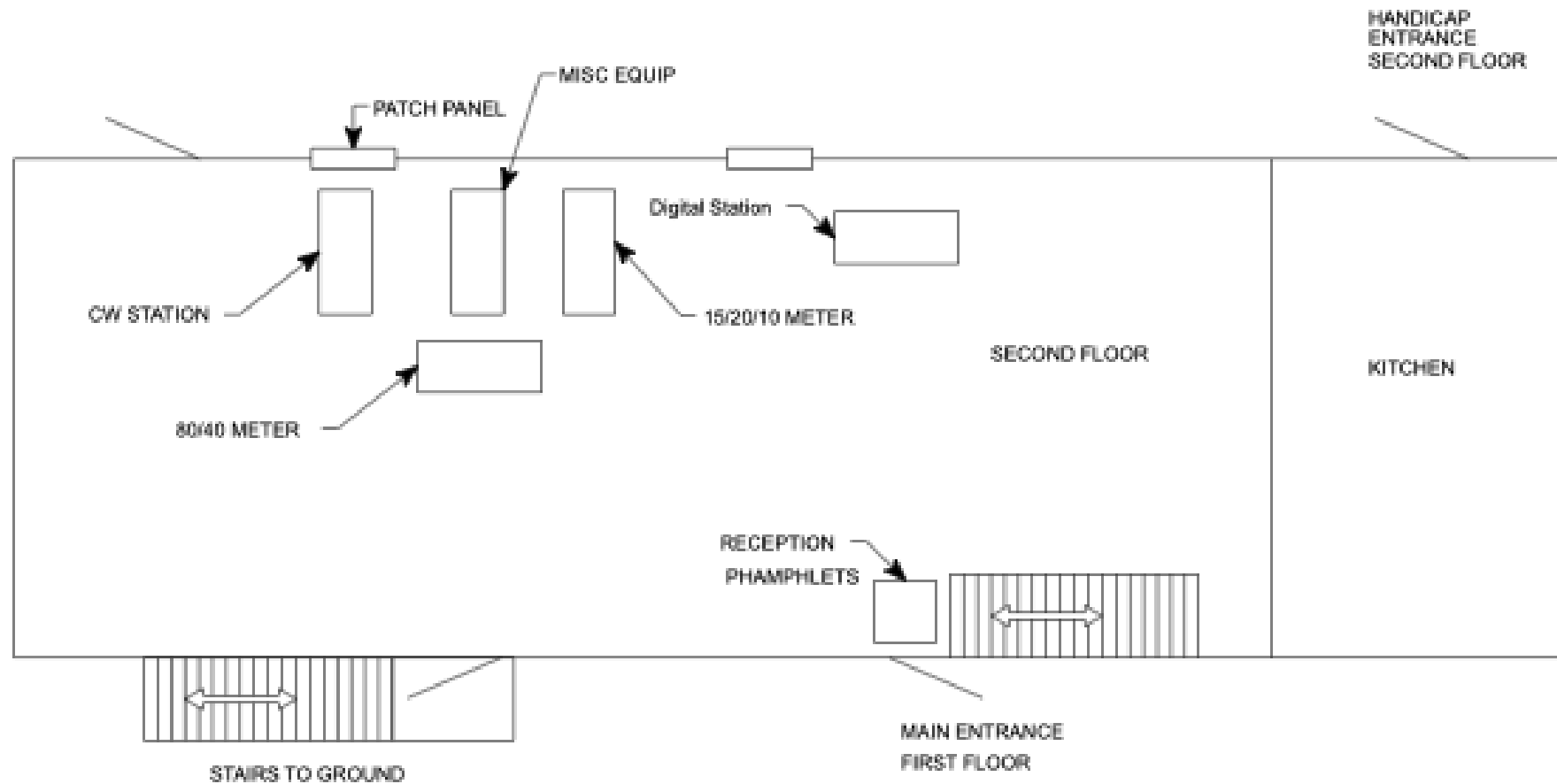
- 1 BAND PASS FILTER. MOVES BETWEEN RADIOS
- 2 USE EITHER 40 OR 80 BAND PASS FILTER
- 3 SWITCH BETWEEN BEAM AND WIRE ANTENNA AS NECESSARY
- 4 WINDOW PATCH PANEL
- 5 GROUNDED DUPLEX OUTLETS AT PATCH PANEL

STATION SETUP

FIELD DAY ANTENNA FARM



ROOM SETUP



LAST YEAR'S COMMENTS

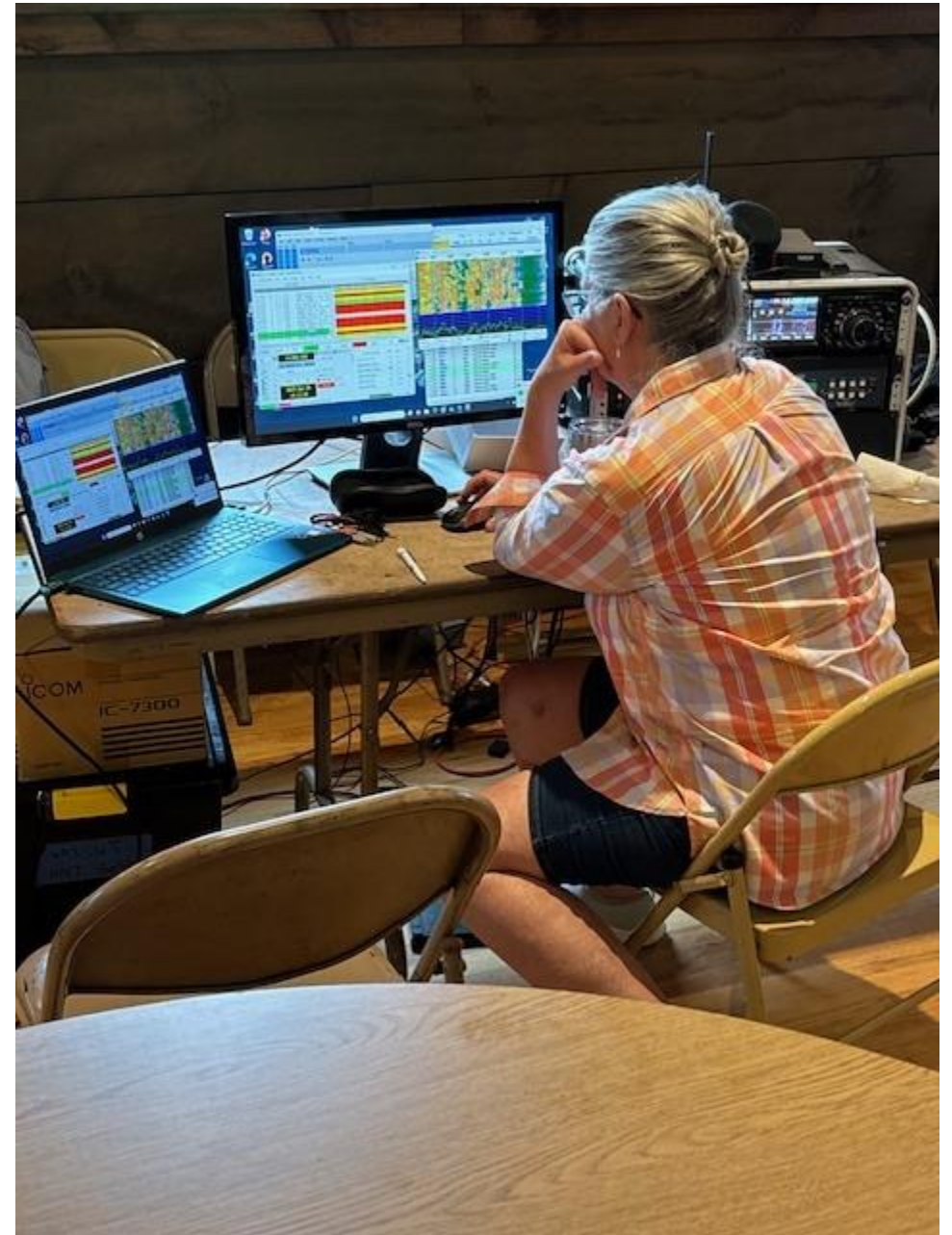
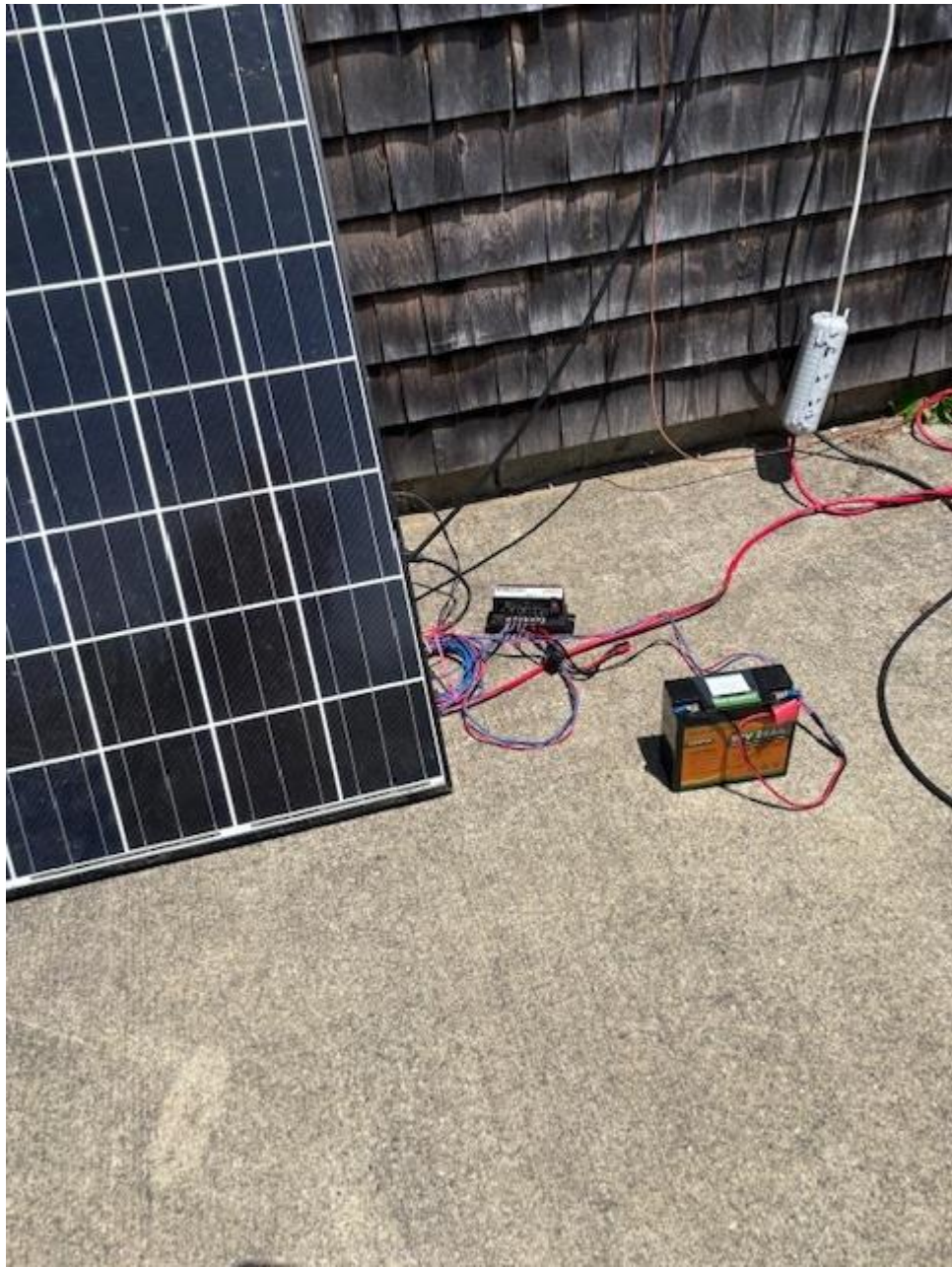
- Would it be better to start setup earlier in the day to avoid the heat?
- Do we want to purchase a dedicated tool box and tools for the antennas?
- Attaching the tri-band beam to the tower required some innovative thinking. A pipe was used as a sleeve to allow the beam to rotate. It worked well except for the fit. Several layers of Gorilla tape in a couple of places on the mast allowed a snug assembly. A better way to connect the antenna to the mast is required.
- Do we want to put up a second tower for the 40 meter beam? Would adding a second end fed antenna at 90° to the other end fed make more sense?
- Considering the number of operators, is it advantageous to put up a 6 meter station? It does not count toward our total stations, but it takes time to set up and take down the antenna.
- Should we operate a digital station full time even if means idling another station? We get 2 points per contact.
- Cross talk is always a consideration when we have multiple radios operating close to each other. This year we did not have a lot of problems except for the digital station interfering on other bands. Some possible causes are: radios that are not capable of rejecting the out of band emissions in the room; coax with poor shielding; degraded band pass filters or a combination of the above. How do we address this issue?
- Operating slots were set at 2 hours. Comments from previous events suggested this arrangement. Operators have stated that they would rather come in for a multi hour assignment rather than several one hour assignments.
- Should we put a rotor on the tower? It would allow operators to get contacts from more directions.
- One impediment to the timely erection of the tower was tangled guy wires. Should the club purchase canvas bags or other means of keeping the guy wires separated from each other and make identification of the individual guy wires easier?









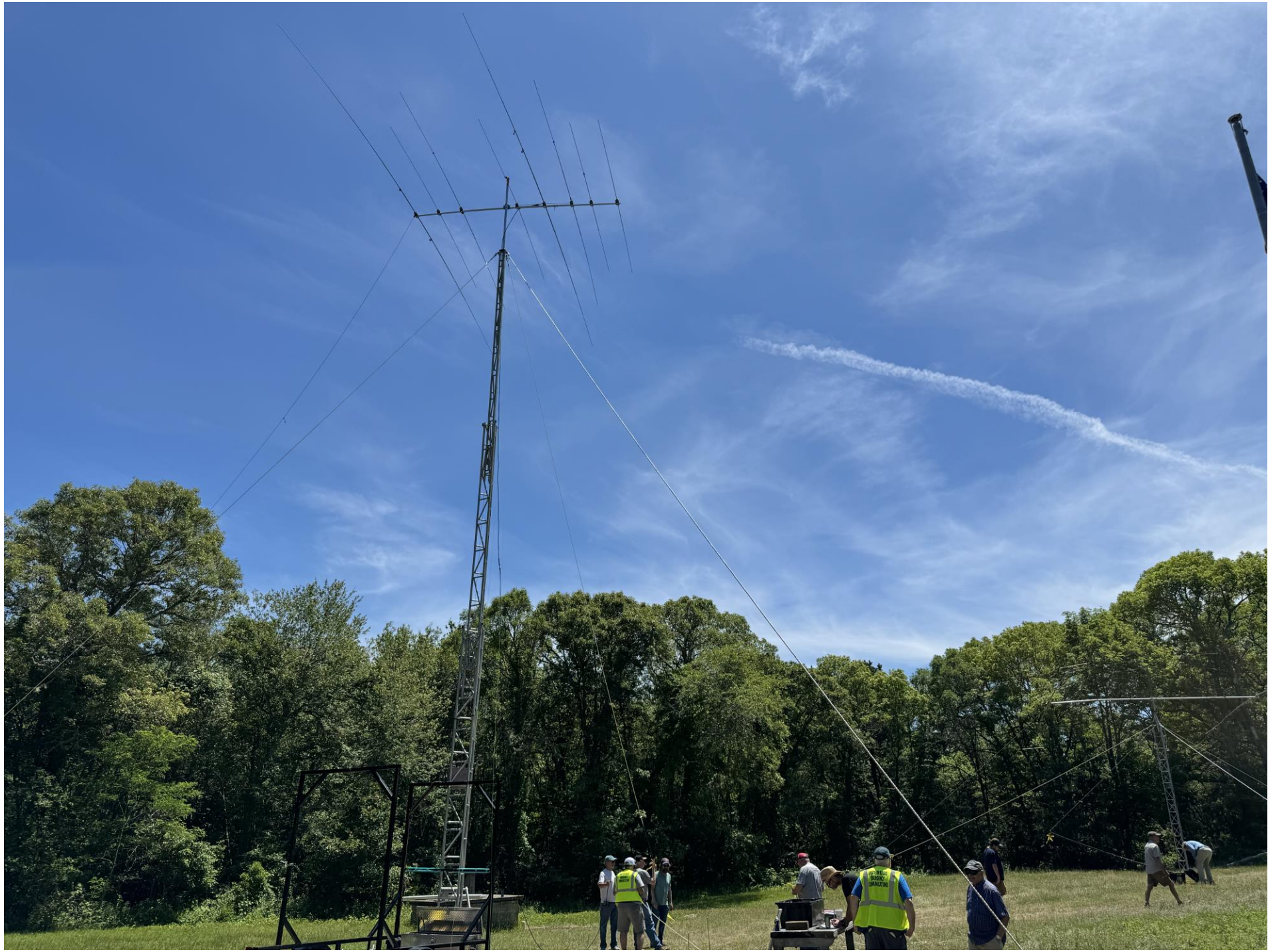














W1AW Field Day Bulletin

QST de W1AW

Special Bulletin 7 ARLX007

From ARRL Headquarters

Newington CT June 27, 2025

To all radio amateurs

SB SPCL ARL ARLX007

ARLX007 2025 W1AW Field Day Bulletin

ARRL Field Day 2025 is here!

You are participating in the largest amateur radio event of the year. Across North America, hams are coming together, getting on the air, and sharing their passion for the Amateur Radio Service.

The theme this year is "Radio Connects." Amateur radio connects people across generations, across town, across the country, and around the world. It serves as a pathway into careers for future

ARRL Field Day is an opportunity to showcase our skills to the public. Give visitors a warm welcome and make them feel a part of it!

Remember to publicize your activation using social media with the hashtag, #ARRLFD.

Want to have your photos appear in QST? Be sure to share your stories and photos via the Field Day Soapbox.

Don't forget to submit your entry using the online entry form at field-day.arrl.org before 2059 UTC on Tuesday, July 29, 2025.

Good luck and 73!

Besides having a lot of fun ..
So .. How did we do ..

FIELD DAY



JUNE 28-29

[ARRL Home](#) [Field Day Home](#) [Field Day Rules and Resources](#) [Field Day Locator](#) [Entry Form](#) [Entries Received](#) [Results](#) [Soapbox](#)

2025 Field Day Entry

You can update your Field Day Entry by modifying the form entries below and resubmitting. You can access a help page by clicking on [i](#) next to an item on the form. **Note:** You do not need to document can not be larger than 6 MB.

Call Used [i](#) GOTA Station Call [i](#) Location [v](#)

Club or Group Name [i](#) (Type name to find and then select in existing list, or type complete name not on list.)

Number of Participants [i](#) Number of Transmitters in simultaneous operation [i](#)

Entry Class (check only one):

- ☒ A. Club or non-club group portable [i](#)
☐ B. 1 or 2 person non-club group portable [i](#) List of calls of operators:
☐ C. Mobile [i](#)
☐ D. Home station commercial power [i](#)
☐ E. Home station emergency power [i](#)
☐ F. EOC station [i](#)

Power Source (check all that apply):

☒ Generator ☐ Commercial mains ☒ Battery ☒ Solar ☐ Other (list)

Power Multiplier (check only one): [i](#)

- ☐ 5 watts or less and battery powered = 5x
☒ 100 watts or less = 2x
☐ 500 watts or less = 1x (Class A, B or C only)
☐ More than 500 watts (will not be listed in the results)

Bonus Points claimed: Check each box as appropriate and include required proof of points with your submission. All bonus points will be verified at ARRL HQ and add

☒ 100% emergency power [i](#)

☒ Media publicity [i](#)

File [Chronicle BARC Field Day 2025.pdf] previously uploaded: No file selected.

☒ Public location [i](#)

☒ Public information table [i](#)

☒ Formal message to ARRL SM/SEC [i](#)

File [Winlink_SM.pdf] previously uploaded: No file selected.

☒ W1AW Field Day message [i](#)

File [W1AW_Bulletin_0627.txt] previously uploaded: No file selected.

☒ Formal messages handled [i](#) — No.

File [WinLink_10NTS.pdf] previously uploaded: No file selected.

☐ Satellite QSO (automatically determined)

☒ Natural power QSOs completed [i](#)

File [NaturalPowerProof.pdf] previously uploaded: No file selected.

☐ Site visit by invited elected official [i](#)

☒ Site visit by invited served agency official [i](#)

☒ Educational activity [i](#)

☐ Youth participation [i](#)

Number of youth participants completing at least 1 QSO:

Total number of youth participants:

☐ GOTA bonus (automatically determined)

☐ Submitted entry online (automatically determined)

☒ Safety officer [i](#)

File [BARC_FD2025_SafetyOfficerCert.pdf] previously uploaded: No file selected.

☒ Social media [i](#)

☐ Site responsibilities [i](#)

Upload documentation: No file selected.

Note: Bonus points for satellite QSO, GOTA QSOs and web submission will be automatically determined from info entered elsewhere on this form.

Attention: Entrants must upload a QSO dupe sheet or Cabrillo log **and** complete the band/mode QSO breakdown below.

File [FD2025_W1MA_CAB.log] previously uploaded: No file selected.

Band/Mode QSO Breakdown: Do not list GOTA QSOs in this section. [*i*](#)

Band	CW		Digital		Phone	
	QSOs	Pwr(W)	QSOs	Pwr(W)	QSOs	Pwr(W)
160m						
80m	21	100	7	50	15	100
40m	331	100			85	100
20m	97	100	229	50	154	100
15m	211	100	33	50	76	100
10m					4	100
6m						
2m						
222						
432						
Other						
Satellite						

Summary

Entry received at: 2025-07-16 02:16:46 UTC
Submitted by: **Bruce Semple, WA3SWJ** E-mail: bruce.semple@outlook.com
Call Used: **W1MA** GOTA Station Call: **(NONE)** ARRL/RAC Section: **EMA** Class: **3A**
Participants: **28** Club/Group Name: **Barnstable Amateur Radio Club**
Power Source(s): **Generator, Battery, Solar**
Power Multiplier: **2X**

Preliminary Total Score: 5,834 (4,384 QSO pts + 1,450 Bonus pts)
Bonus Points 1,450

	CW	Digital	Phone	Total
Total QSOs	660	269	334	
Total Points	1320	538	334	2192

Claimed Score = (QSO points x
power mult) = **4,384**

Home Stations Aggregating Score -- KA1CTL – 44 SSB QSOs x Pwr Mult = QSO pts.

Adding in Home Stations – 1 - KA1CTL

Previous Years

Year	QSO Points w/Pwr Multiplier	Bonus Pts	Totals
2025	4,284 88 ----- 4,372	1,450 ??? ----- ????	5,834 ????? ----- ????
2024	4,436	1,050	5,486
2023	4,790	1,350	6,140
2022	5,396	1,550	6,946

THIS YEAR'S COMMENTS 1/2

- Having more people available for setup & takedown was a huge help!
- The “customize your own” submarine sandwiches were great! They provided sustenance into the early AM hours on Sunday!
- There was a lot of RFI interference between radios, especially when CW was being transmitted.
- Some hardware on the 20 meter beam should be replaced due to rust and thread damage. Also a package of spare nuts, washers and screws would be useful.
- Putting the 40 meter beam on a 20' tower worked well. The team assembling the beam commented that using quick connection equipment like was done for the 20 meter beam would help during assembly. Failing that - -some new pipe clamps. We had to jury rig the upper supporting structure that holds up the ends of the 40m boom.
- Having a dedicated tool box for the beams would speed assembly since time was wasted looking for the correct tools inside the tool box.
- Operating slots should be in 1 hour increments. This comment is the opposite of last year's comment.
- The container should have better lighting.

This Years Comments .. 2/2

- Better lighting is needed in the parking lot. Getting to and from the vehicles at night was less than ideal.
- It would be helpful to have a 40meter dipole in addition to the beam. Using the beam, stations could be heard, but not worked.
- It would help if we could standardize the radio and laptop setup. The radio to laptop interface is important to make sure the band / mode information is getting recorded correctly. The 7300's profiles stored on SD card would go along way in making this happen.
 - Ensure the "CW Keying" is working between N1MM and the radio.
- Should we move from 3A to 2A? At times, there were not enough operators to keep 3 radios going.
- It would be nice if we could set up in a more publicly available location. ... and then have an appropriate GOTA station arrangement – including a coach!

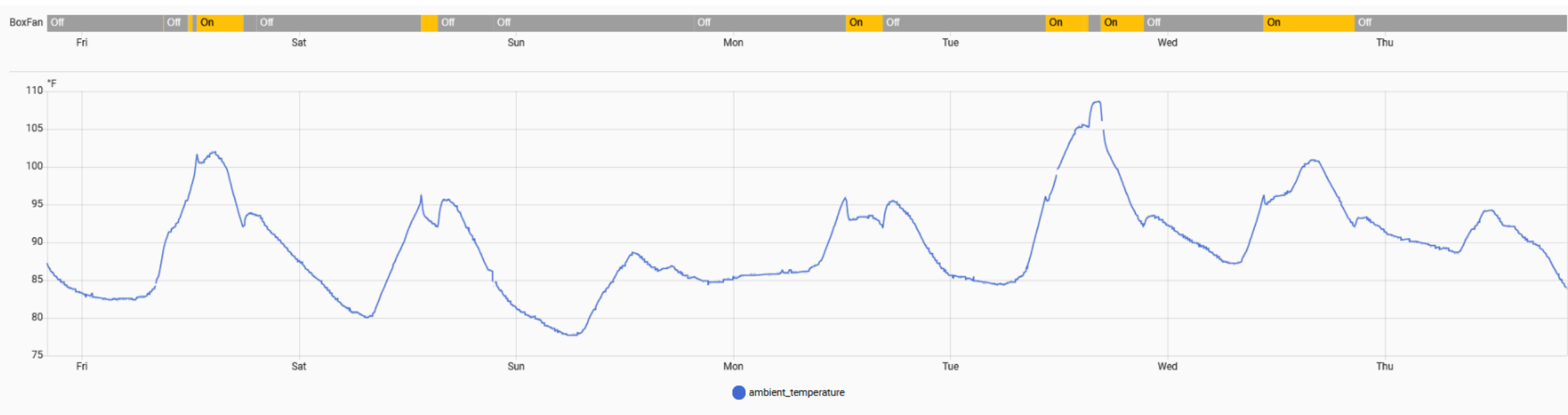
Other Comments / Suggestions

Cross Station Interference Initiatives

- The triplexer and band pass filters have all been swept and are “in spec”
- Need a reminder to put the band filters close to the radios .. Use 1-2ft coax jumpers.
- John / KA1CTL – has been doing some testing in his backyard – focus on proper configuration of the 7300
- Coast Guard weekend -- Tribander + Vertical (R5)
- Do some testing just with the Triplexer, band filters, interconnecting coax, dummy load
- Other Ideas ??

Repeater Report

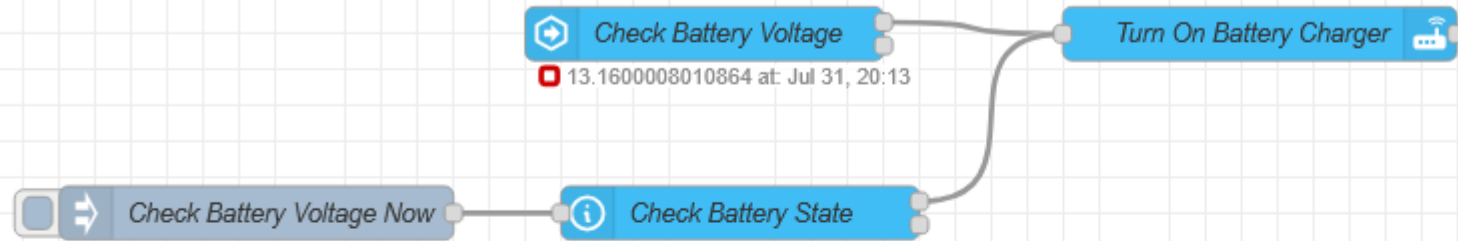
W1MA – 2M Repeater Shed Ventilation Study



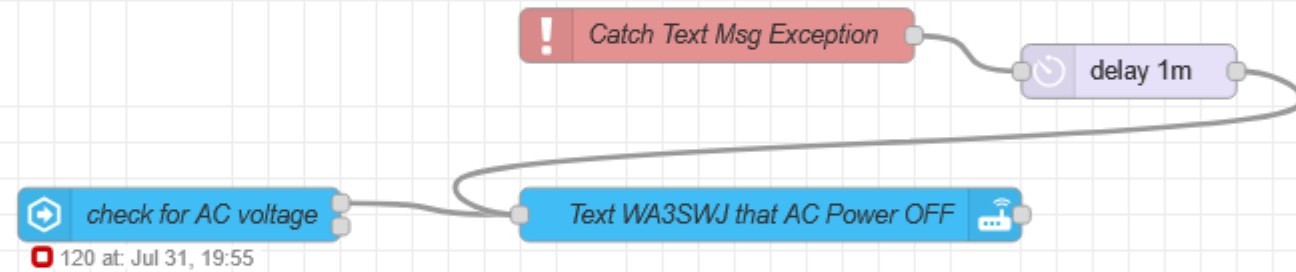
NodeRed automation turns box fan on at 96 F and off at 92 F.

NodeRed Automations

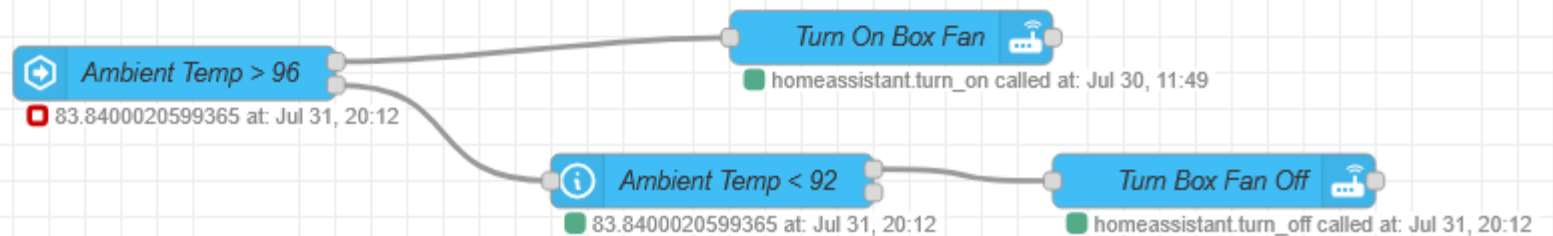
If Battery Voltage Drops below 12 Volts Turn on Battery Charger



TEXT WA3SWJ if power goes out

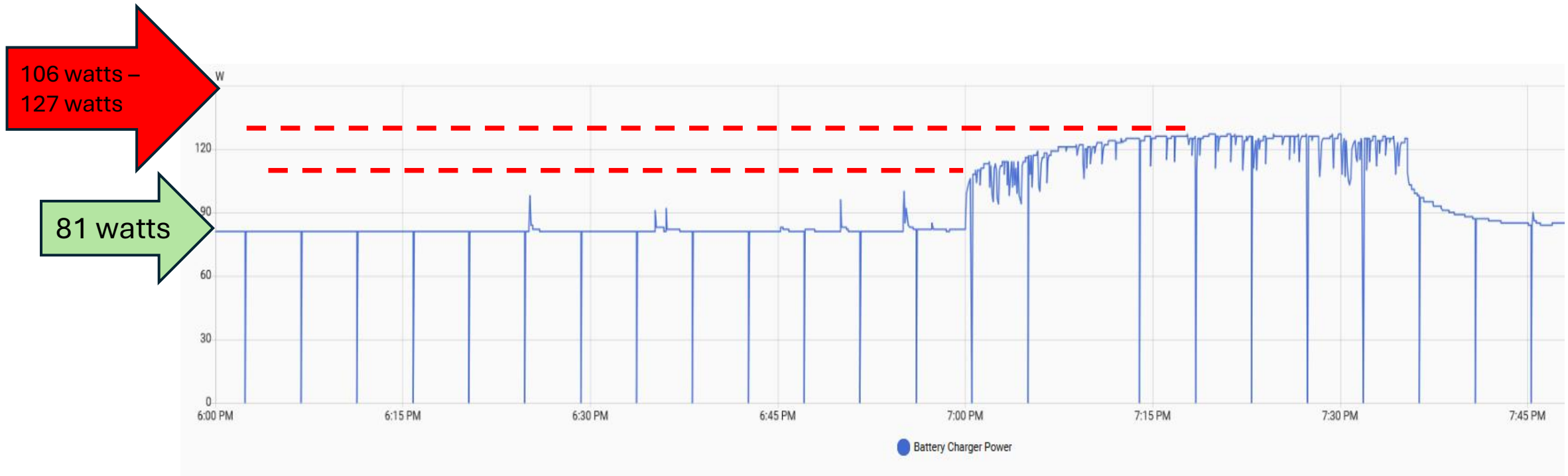


Control the box FAN -- if it gets too hot - turn on fan



W1MA 2M Repeater – Battery Charger A/C Current

Sunday July 27 – 6:00pm-9:00pm



127 watts - 106 watts = 21 watts → change of 20% change in 15 minutes

Temporary Camera Inside the 2M Repeater Shed



Proof Of Concept Camera On Top DFT

CAIECN-DFT

2025-0



Crop



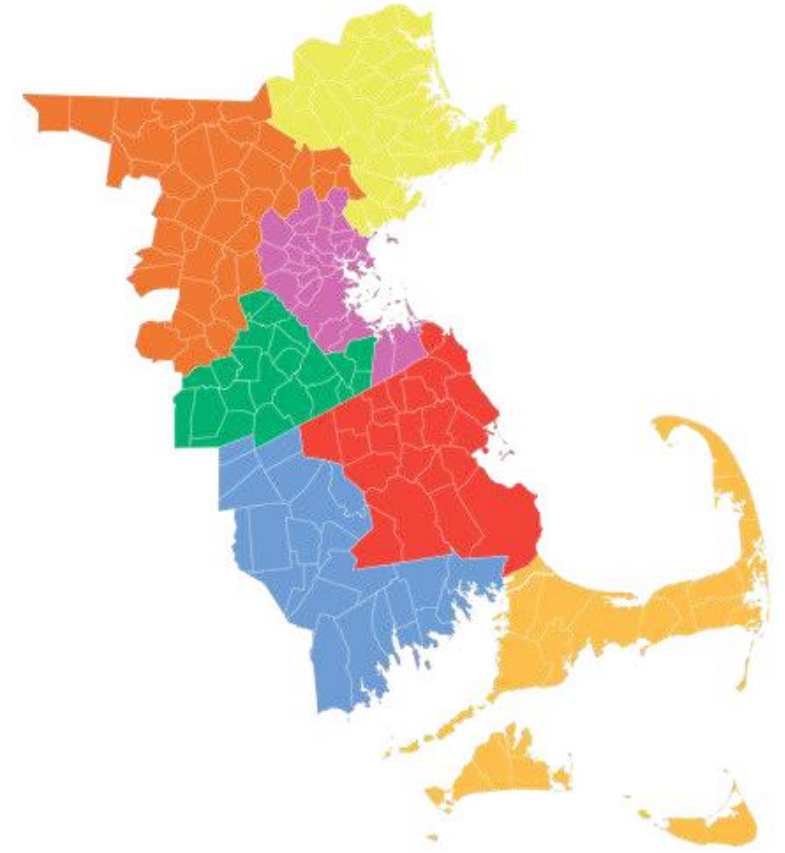
Amateur Radio Emergency Service (ARES)



Eastern Massachusetts ARRL

a field organization of the National Association for Amateur Radio®

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ARES Summer Drill

“ Summer Strike

Frank / WQ10 -- Eastern MA ARES Staff

Cape & Islands District Emergency Coordinator

https://ema.arrl.org/ares/#ares_section_leadership

Summer Strike - Situation Report

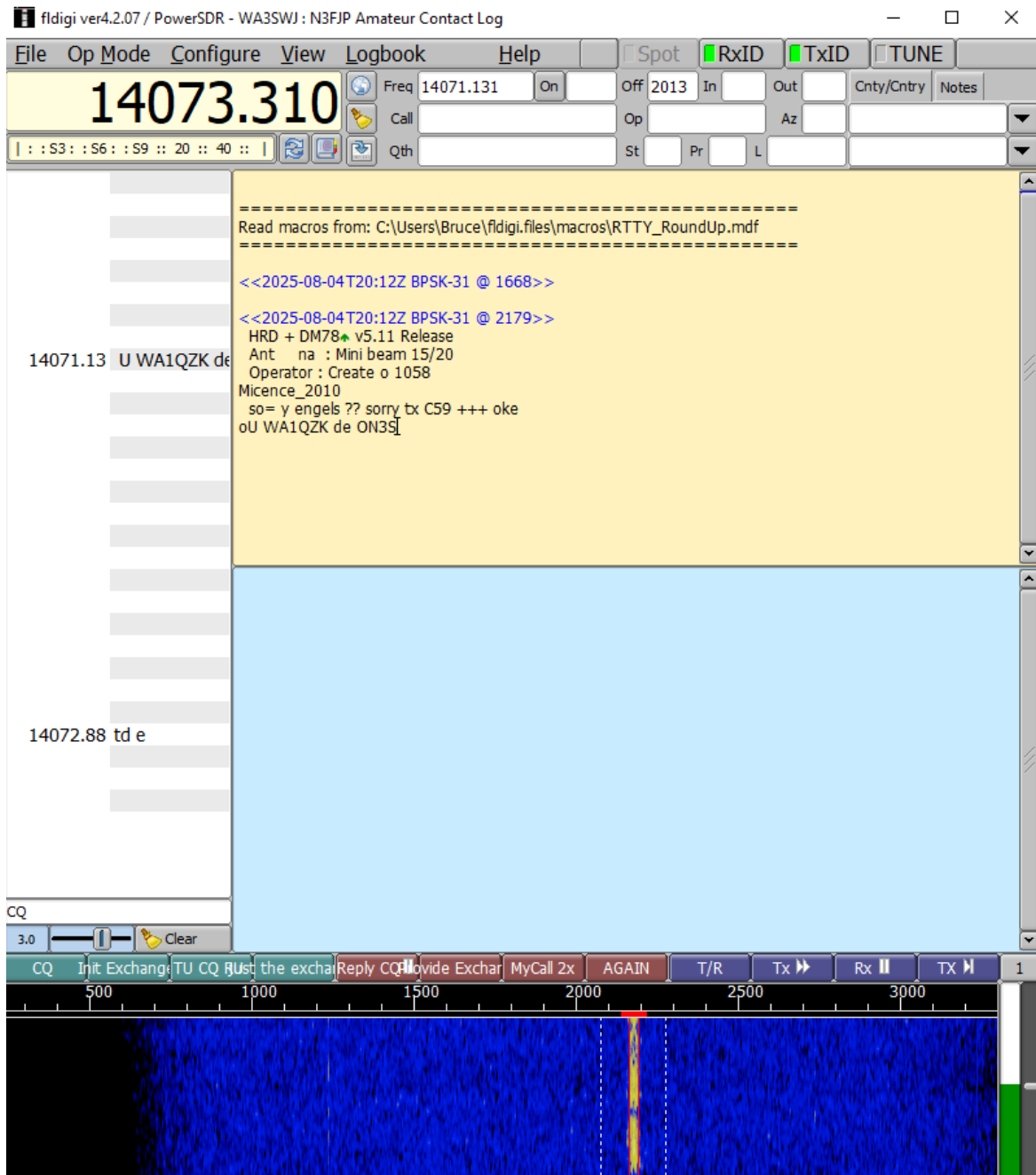
The situation in much of MA is quite grave. The south coast of MA/RI suffered the greatest wind damage and surge values. The fact that the initial hit was extended time wise in both wind and surge for more than a single tide cycle has made the situation so much worse. Even after the category three winds moved in, winds over 85mph still raked the area for almost 20 hours. Many structures on the south coast have been destroyed by surge with many structures severely damaged by wind from roof/curtain wall failure.

In the rest of eastern MA, the coast has also been battered from tide cycles.

Winds also have caused heavy damage as much of the area has seen winds over 80 miles per hour for an extended period of time.







From Frank / WQ1O

We had 20 stations check in on VHF 2m.

- 4 field sites
 - Upper Cape field site in the hospital parking lot using the FARA trailer!,
 - Chatham Mobile field site
 - Dennis Firehouse 2 parking lot
 - Mid. Cape field in Dennis(NCS) – WW1RF's QTH.
- Two EOC sites:
 - Spaulding Hospital
 - Falmouth EOC (at the Fire Rescue HQ in Falmouth).
 - Falmouth hospital inside station on the air.
 - SEMARA (SouthEastern Mass. Amateur Radio Assc.) club station W1AEC on the air from Dartmouth.
- There were several home and mobile stations as well including Nantucket (both home and mobile!)
- Still compiling the data – final results at next ARES meeting – TBA

From Jon / N1ILZ (Digital Net Control)

A special session of the Massachusetts Rhode Island Digital Net (MARIDN) was conducted from 1000 EDT (1400Z) until 1152 EDT (1552Z) for a total of 112 minutes.

A total of four stations checked in:

N1ILZ/NCS

N1RDN

KW1U

WA3SWJ (mid-Cape Field Site)

The net handled a total of 4 TEST-WELFARE Radiograms.

Propagation conditions on 40m were rough. In particular, cape-to-cape transmissions often didn't get through. Propagation from the Cape to KW1U in Concord, MA was more reliable, and KW1U played an essential role as relay.

Advanced Studies & Leadership Program – ASLP

