MARC Repeater Update

16JUN25

KR4YK- Fred

Updates since 21OCT24

Bald Knob Site

Bald Knob Site

- **AC power surge on 26NOV24.**
  - **Destroyed the 444.500 (switching) power supply.**
  - **Blown fuse in APRS (transformer) power supply.**
  - **Blown fuse took 147.180 cross band system off air.**
  - **ALEA microwave system and APTV damage.**

Bald Knob Site Upgrades

- **Installed UPS for the 146.840 repeater on 5FEB25.**
- **Installed additional end of line power surge protection for all other equipment.**

146.840 Antenna Plan

- **TDR confirms likely antenna, matching harness, and/or connector damage. Feedline is OK.**
- **Antenna will be taken down for inspection and evaluation. Feed line connector will be inspected.**
- **Antenna will be relocated to the proposed location as planned.**

146.840 Antenna Location Change

- **Lowering the antenna (~ 40’) WILL affect the coverage pattern to the North.**
- **Re-location should improve dead spots in Montgomery.**

Bald Knob Site

- **Replacement of upper dual band antenna.**
  - **This antenna is approximately 20 years old and reforming poorly.**
  - **The other dual band antenna was replaced approximately 6 years ago.**

Bald Knob Site

- **Replacement dual band antenna is in hand.**

- **This is planned to be completed at the same time as other tower work.**

Current Bald Knob Configuration

- **146.840 is on the lower dual band antenna.**
- **444.500 & 144.390 (APRS) is running on the upper dual band antenna using a diplexer.**
- **147.180 cross band is running on bottom antenna.**

APRS Updates/Upgrades

APRS – Bald Knob

- **APRS radio failed on 3MAR25.**
  - **That radio (Kenwood TM-221) had been running 24/7 for approximately 25 years. RIP.**
- **Radio replaced and operational with a Kenwood TH-271 on 12MAR25.**

APRS – Bald Knob

- **Interaction with the KC4EMG Digi in Elmore County causing some delayed reporting and double tracking.**

- **This has since been fixed.**

Thanks for the Donations!

- **Kenwood TM-271 donated by KK4IB (Sparks).**
- **New data adapter cable and technical support by KD4AXP (Charles).**

APRS – Greenville Site Upgrade

- **Programming updates for the TNC completed on 14FEB25.**

- **Reinstalled and added a UPS for the existing Greenville APRS site (WKXN-FM) on 15APR25.**

APRS – Greenville Site Upgrade

- **Thanks to KD4AXP (Charles) for the programming.**
- **Thanks to W4MPQ (Bob) for access and use of the site.**

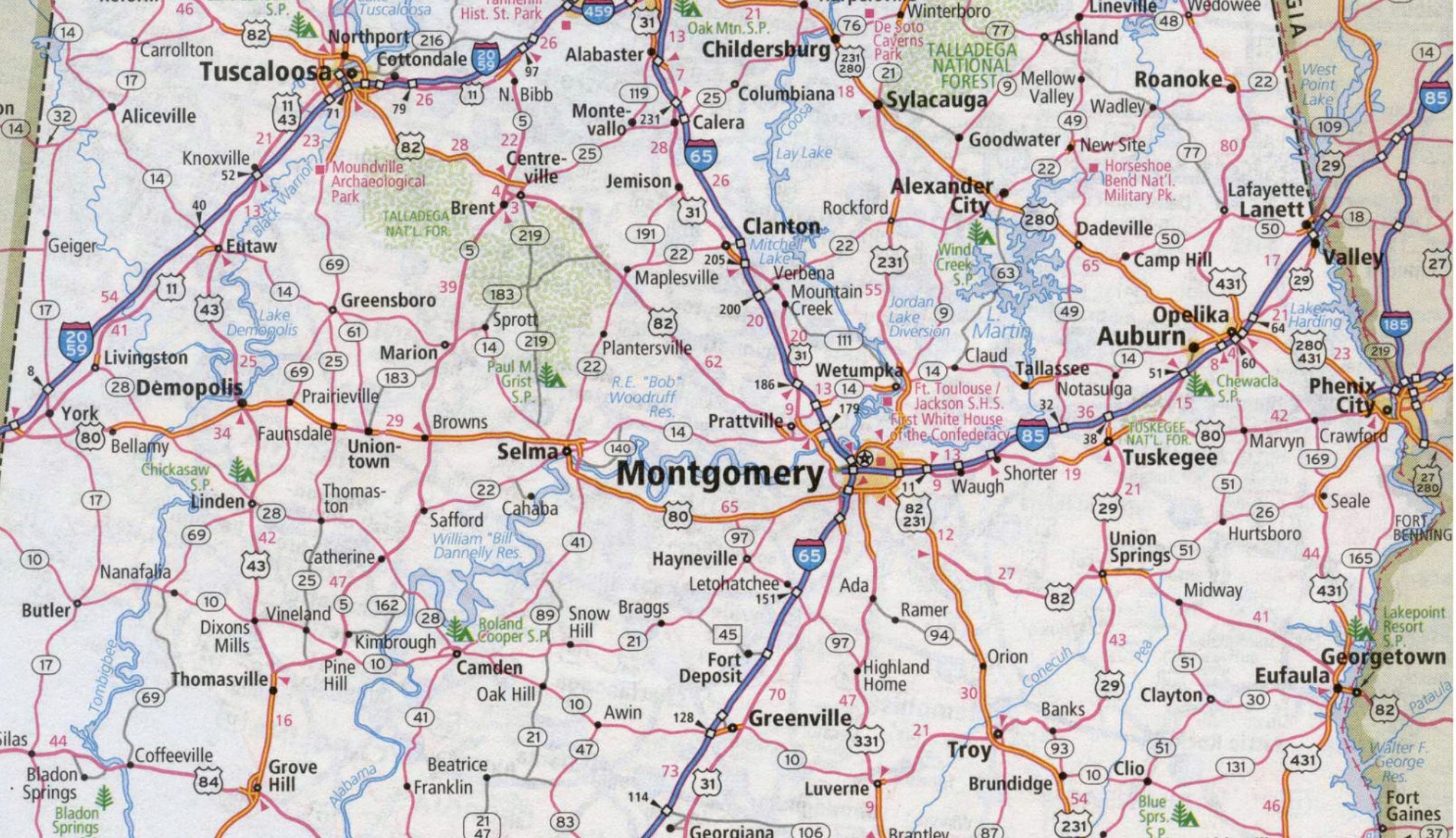
APRS System Expansion

- **This project is to provide additional APRS coverage for S. Montgomery County.**
  - **Disaster use.**
  - **Everyday use.**
  - **Glassner Autum Challenge.**

APRS System Expansion

- **Existing coverage and site survey by AK4KN (Ken), KD4AXP (Charles) and KR4YK (Fred) on10DEC24.**

- **Thanks to AK4NG (George) and AK4NF (Nancy) for their help finding a suitable site.**


Tuscaloosa
Northport
Cottondale
Carrollton
Aliceville
Knoxville
Moundville Archaeological Park
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Brent
Jemison
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Calera
Childersburg
Columbiana
Sylacauga
Talladega National Forest
Mellow Valley
Ashland
Winterboro
Lineville
Wedowee
Roanoke
Wadley
Goodwater
New Site
Horseshoe Bend Nat'l. Military Pk.
Alexander City
Lafayette
Lanett
Valley
Dadeville
Camp Hill
Rockford
Clanton
Maplesville
Verbena
Mountain Creek
Plantersville
Greensboro
Sprott
Marion
Eutaw
Geiger
Livingston
Demopolis
York
Bellamy
Faunsdale
Prairieville
Browns
Union-town
Selma
Montgomery
Wetumpka
Prattville
Claud
Tallassee
Notasulga
Opelika
Auburn
Phenix City
Tuskegee
Marvyn
Crawford
Shorter
Waugh
Ft. Toulouse / Jackson S.H.S.
First White House of the Confederacy
Linden
Thomas-ton
Safford
Cahaba
Catherine
Nanafalia
Butler
Vineland
Dixons Mills
Kimbrough
Pine Hill
Thomasville
Camden
Oak Hill
Snow Hill
Braggs
Hayneville
Letohatchee
Fort Deposit
Ada
Ramer
Highland Home
Orion
Greenville
Troy
Banks
Clayton
Eufaula
Georgetown
Midway
Union Springs
Hurtsboro
Seale
Fort Benning
Lakepoint Resort S.P.
Walter F. George Res.
Fort Gaines
Clio
Brundidge
Luverne
Awin
Beatrice
Franklin
Coffeeville
Grove Hill
Bladon Springs
Georgiana
Brantley
Blue Sprs. S.P.
Chickasaw S.P.
Paul M. Grist S.P.
Roland Cooper S.P.
Oak Mtn. S.P.
De Soto Caverns Park
Chewacla S.P.
Wind Creek S.P.
Lake Harding
West Point Lake
Lay Lake
Mitchell Lake
Jordan Lake Diversion
L. Martin
Lake Demopolis
William "Bill" Dannelly Res.
R.E. "Bob" Woodruff Res.
Tombigbee
Black Warrior
Alabama
Conecuh
Pea
Pataula
Tuskegee Nat'l. For.
Talladega Nat'l. For.

Club Station at the ARC

HF (75-40 M) Dipole Upgrade
Designed and Built by N4UZZ (Otto)

ARC Tower Upgrades

- **Damaged HF beam antenna replaced and V/U antenna relocated on 10JUN25.**
- **HF beam covers 20, 17, 15, 12 and 10 M.**
- **100% operational on 10JUN25.**

ARC Station Improvements

- **How it happened.**
- **Thanks to KK4IB (Sparks) for taking this project.**

Other Area Repeater Updates

Selma VHF Repeater

- **Back on the air in January 2025.**
- **Hosted by N4WUP (Boyd).**
- **146.720 (-600 KHz offset and 100.00 Hz Tone).**

New Crenshaw Co. VHF Repeater

- **Located on the water tower in Rutledge.**
- **146.760 (-600 KHz offset and 103.5 Hz Tone).**
- **Plans to link to Georgiana and Fort Deposit repeaters.**

147.20 Repeater in Waugh

- **MARC spare repeater (Yaesu DX-1 Fusion) currently running at this location for KE4LTT (Wiely).**

- **Planning to add a separate UPS.**

KF4RHA Repeater

- **Changed to 442.500 MHz (+) with no tones in March 2025.**

- **Location remains the same.**

GMRS Repeaters

An Additional GMRS Repeater in Montgomery on 462.700

- **KR4YK (Fred) installed an additional GMRS repeater and is in the testing phase as of 1NOV24.**
- **Listed as MTG700- 462/467.700 with a 151.4 Hz tone.**

An Additional GMRS Repeater on 700

- **Operational as of 12FEB25.**
- **8 mile range.**
- **UPS back up.**

Additional Area GMRS Repeaters

- **Clanton- 462.7250 141.3 Hz tone. Hosted by WB4UQT (Chris). Operational 1JAN25.**

- **Jemison- 462.6000 123.0 Hz tone. Hosted by WB4UQT (Chris). Operational 1JAN25.**

Additional GMRS Changes

- **Wallsborough (N. Elmore County) is permanently off the air. AE3HD (Earnie) has moved to Canton, Georgia and re-installed it there.**

- **Prattville – KD4AXP (Charles) will use that frequency pair (462.650 147.3Hz tone) for that new site. It is currently on the air in test mode.**

Remember!

- **GMRS is a separate communications service that requires a GMRS license to use.**
    - **The license covers all family members.**
- **Most repeaters are “open” and free to use.**

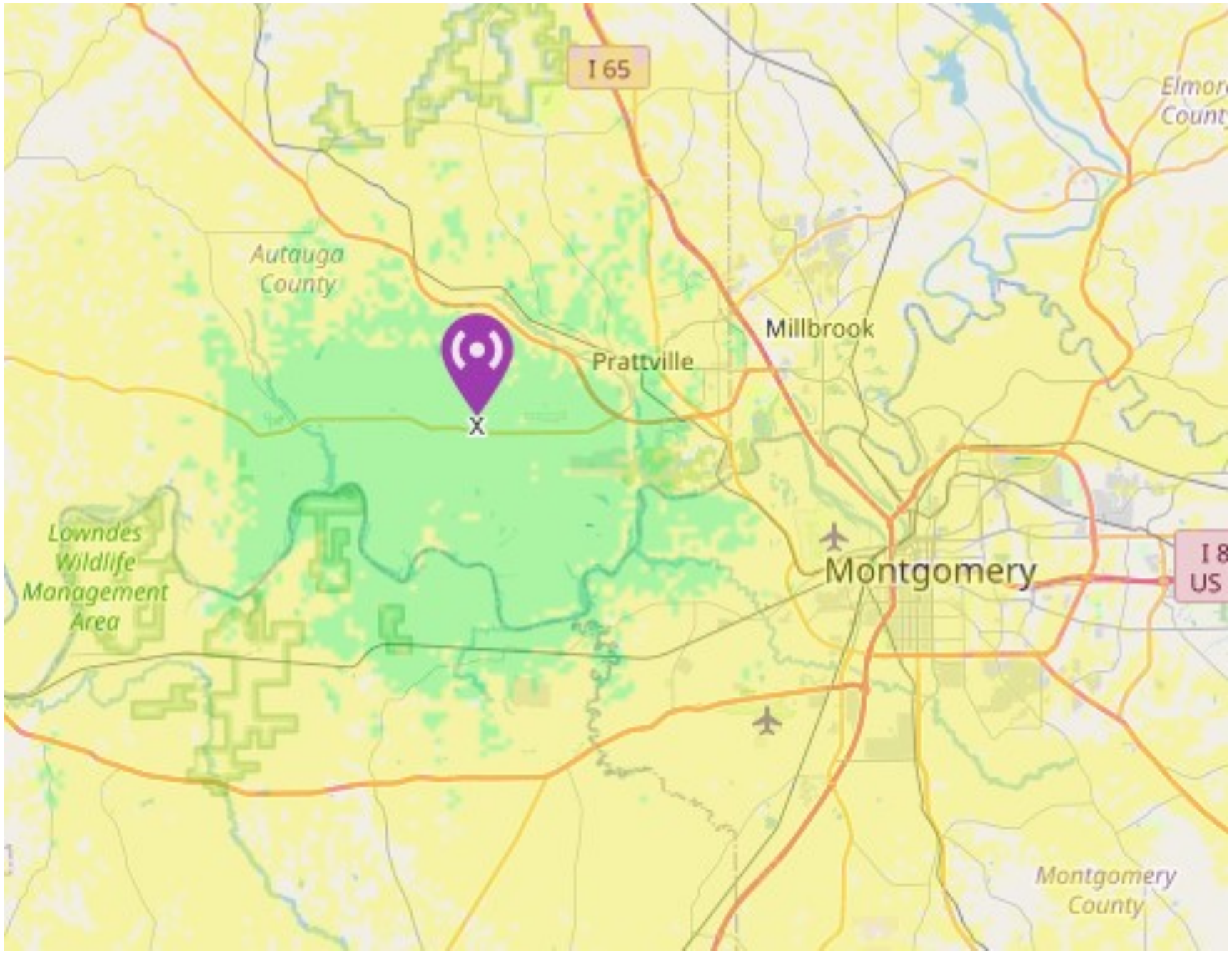
Alternate Input for 146.840 for Prattville Project

Cross Band Repeater for 146.840

- **Low power and intended to specifically serve the West Prattville low area.**
- **443.075 MHz (Simplex) with a 103.5 Hz tone.**
- **Listed on W4AP site.**

.840 Cross Band Repeater

- **Tower work and coax run completed on 4FEB25.**
- **Radio Installation completed on 10APR25.**
- **Fully operational as of 18APR25.**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Prattville
Millbrook
Montgomery
Lowndes Wildlife Management Area
Montgomery County
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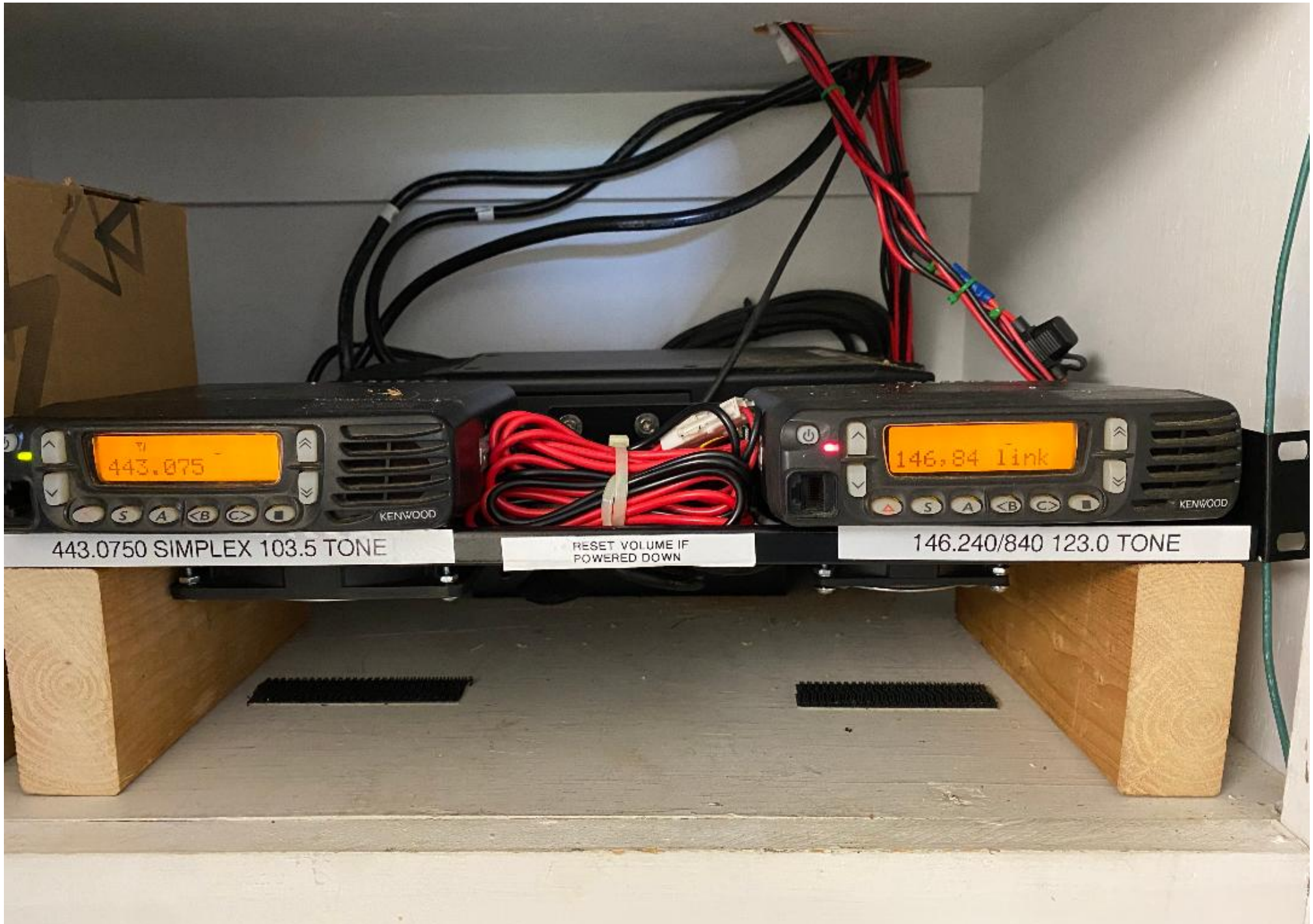
US


443.075
KENWOOD
146.84 link
KENWOOD
443.0750 SIMPLEX 103.5 TONE
RESET VOLUME IF
POWERED DOWN
146.240/840 123.0 TONE

Thanks for the Donations

- **KK4IB (Sparks) for the donation of an offset antenna mounting bracket.**
- **K4PO (Phil) for the UPS battery.**
- **KR4YK (Fred) for the diplexer and UPS.**

Camp Tukabatchee Project

Camp Tuckabatchee Project

- **Project is to install an ~35’ tower to generate interest in amateur radio.**
- **A permanent VHF or dual band antenna on top.**
- **A hoisting assembly for an HF wire antenna to be used as needed.**

Camp Tuckabatchee Project

- **Site visit on 22Oct23.**
- **Written project proposal submitted to BSA Council on 7NOV23.**
- **Presentation made to BSA Council on 14DEC23.**
- **BSA Council approval is still pending.**

Thanks for the Donation

KV4AC (Randy) for the ROHN tower

and oh
yeah,
one last
thing...

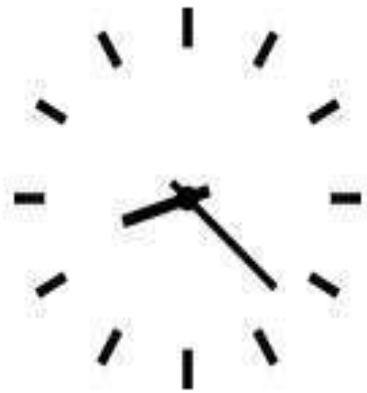
Central Alabama UHF Net

- **Monday at 8PM (except the third week due to the monthly MARC meeting).**
- **444.500 MHz (+5) with 100 Hz tone.**
- **Directed toward recently licensed hams, however all amateurs are welcomed.**

Central Alabama UHF Net

- **We are also looking for additional Net Control Stations.**

- **A good opportunity to give it a try and also prepare for emergency operations.**



Q & A time

Hey Bob, There's a guy here trying to pay with his phone.