

"Tell Us About Your Antenna"

Eleven TVARC Members Showing Us What They Use In Their Shacks

Order of Presenters:

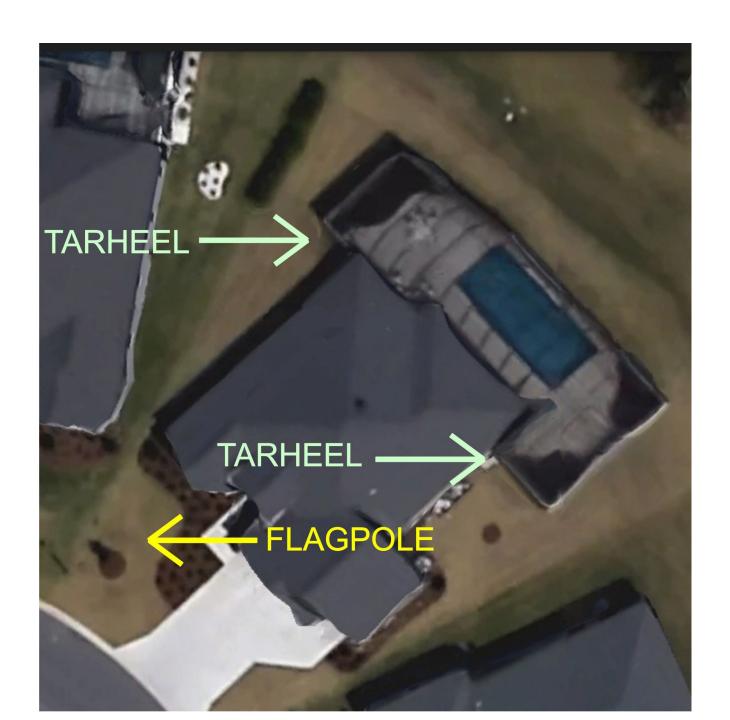
- 1. John Ellis NP2B
- 2. Ken Kaplan WB2ART
- 3. Dennis McKinney NOSMX 9. Steve Waterhouse N1JTR
- 4. George Rutkoskie W4GOR 10.Gary Sienkiewicz W2TR
- 5. Mike Myers K3DO
- 6. John Randall K4CYA

- 7. Art Fenn KB9MI
- 8. Sam Miceli KJ4KJY
- - 11.Faith Olen N4FMO

"Tell Us About Your Antenna"

NP2B John Ellis

Bird's Eye View of Antenna Farm

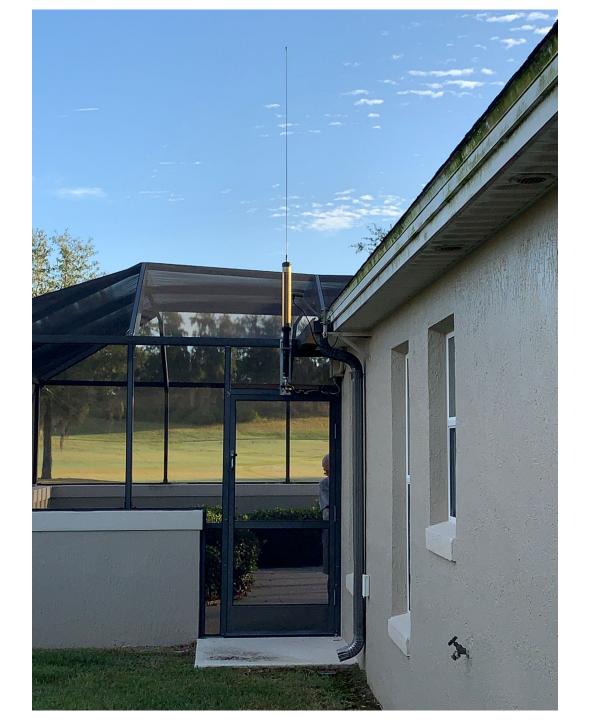


Street View of Flagpole Antenna



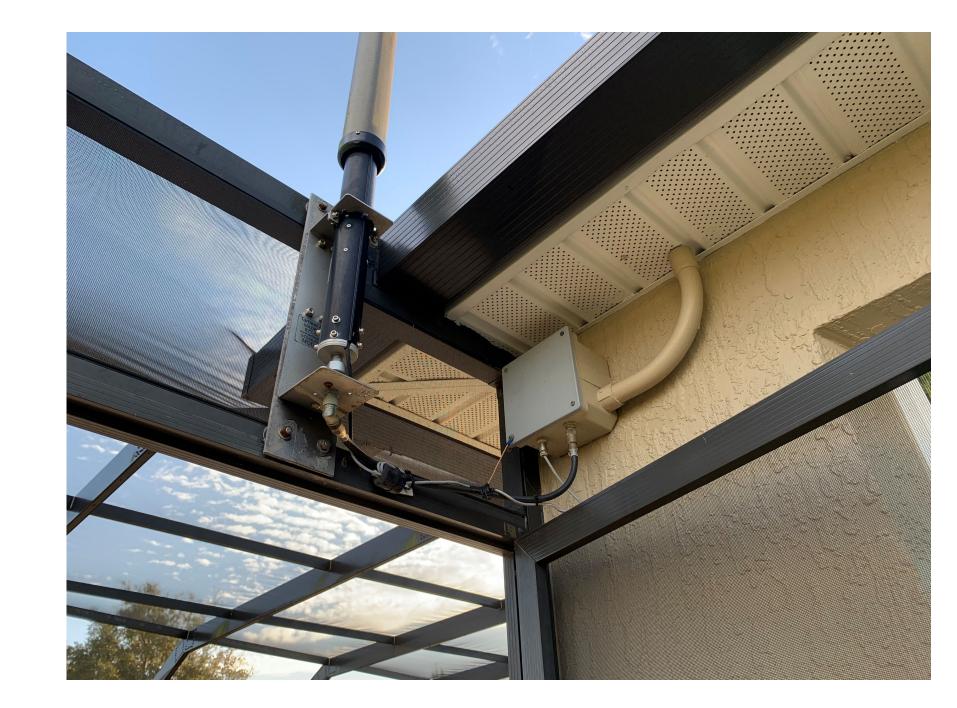


Base of Flagpole Showing Tuner and Acetal Rod



Tarheel Motorized Antenna From a Distance of About 25'

Closeup of Tarheel Showing Cable Placement, Exit from House and Grounding





Tarheel Controller and 12V Power Injector for Flagpole Tuner

Flagpole Antenna at WB2ART

Flagpole antenna installation at WB2ART

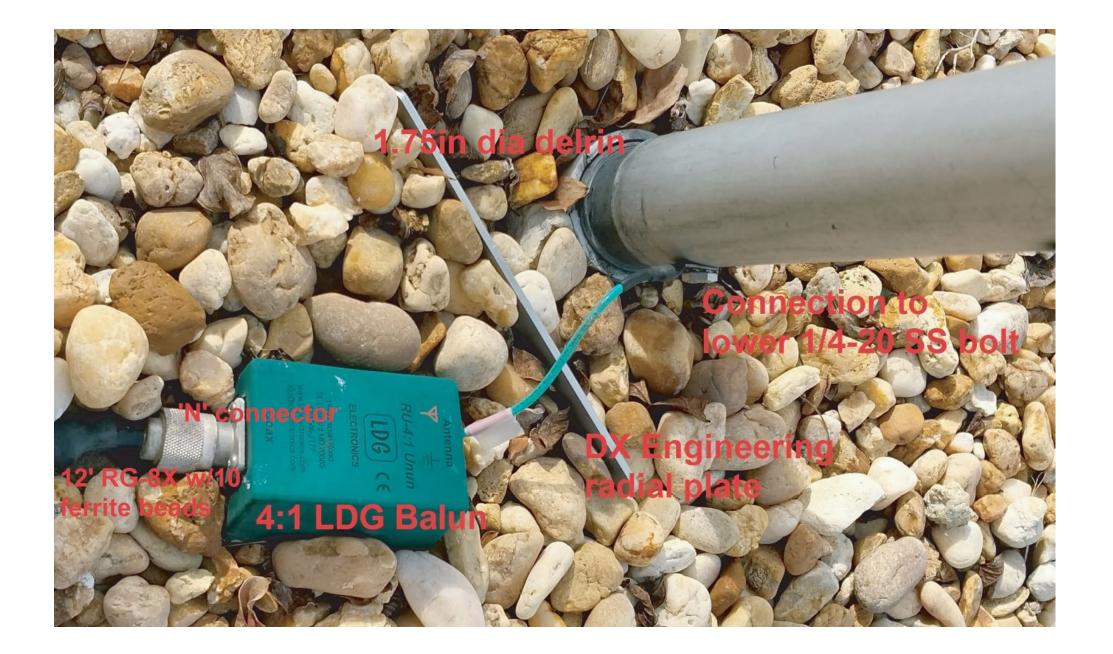
Flagpole is 22 ft high, from NP2B article in

Sep 2017 QST. ARC approved. Approx 9 ft from the shack wall with 12 ft of RG-8X double shielded coax, 4:1 balun and 10 ferrite beads on coax. Antenna tuner installed in KXPA100 amplifier.



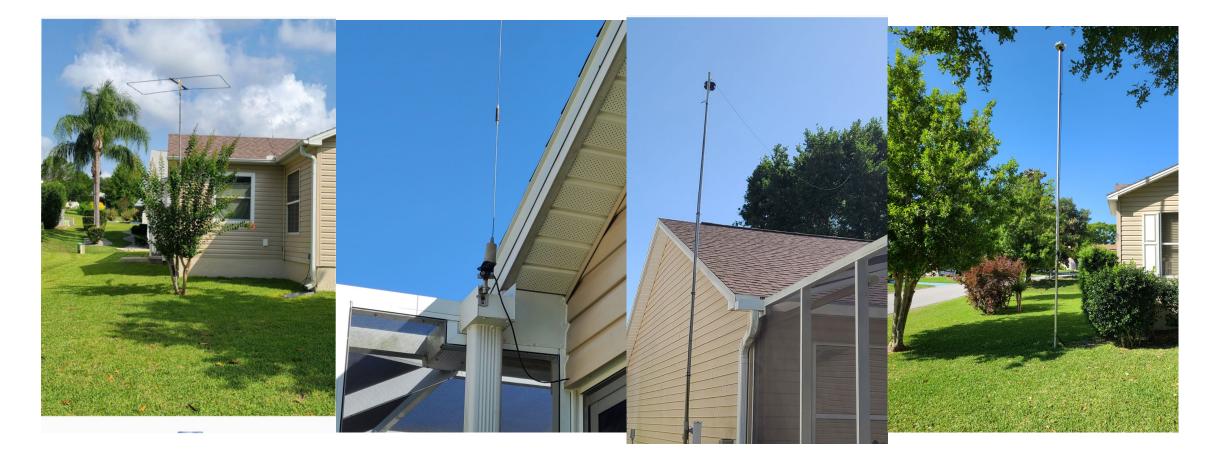


Radials are under the rocks in the area where the flagpole is located. There are 8 radials.



Antennas at NOSMX

NOSMX Antenna Farm

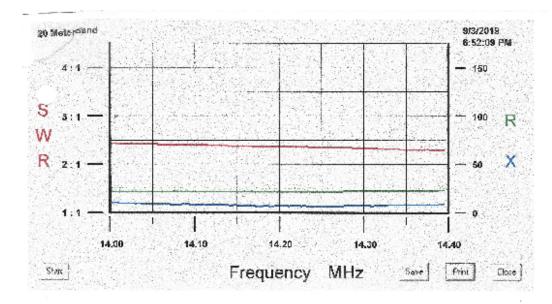


"Tell Us About Your Antenna"

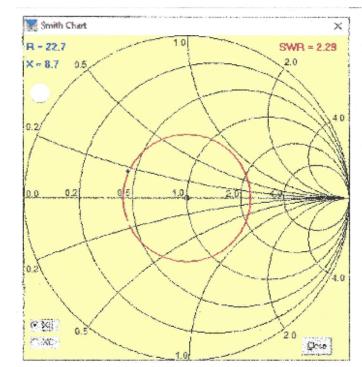
W4GOR

George Rutkoskie

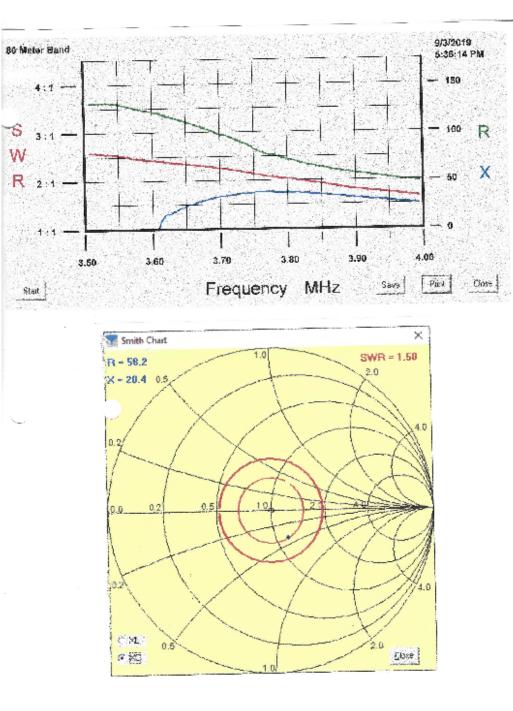
20M Roof Dipole



Sec. 1



80 M Roof Dipole



End Fed Dipole in Attic

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Ventenna on Roof



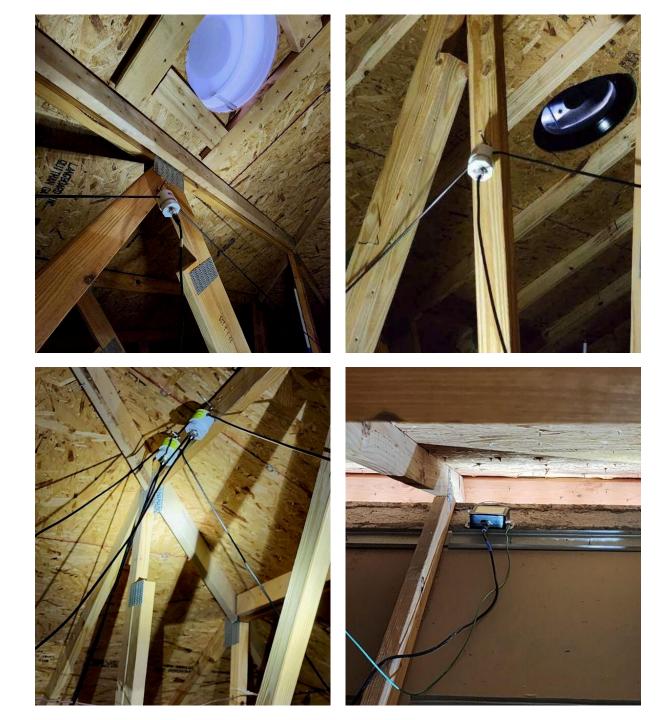
Tar Heel in Backyard



Mike Myers - K3DO

HF wire antennas

- x2 10-meter dipoles at 90 degrees to each other
- 15-meter dipole
- 17-meter dipole
- 80-meter half wave end-fed





Antenna switch

- All the wire antennas in the attic connect to a 5-port remote antenna switch
- One wire goes from the attic to the shack
- There is a remote control in the shack that allows me to select the antenna and disconnect all antennas

Flagpole Antenna

- New Install
- Conduit runs from the house to the flagpole
- 20 foot tall
- off-center dipole
- Remote antenna tuner
- Greyline Performance Antennas



VHF / UHF

Kenwood D-710					
Yaesu FTM-400					
Icom ID-5100					
GMRS					
Yaesu 7900					
Yaesu 8900r					
Anytone 578					
lcom 7610					
SDR Receiver					
ADSB Receiver					
LoraWAN					
Icom 9700					
Spare 1					
Spare 2					
Spare 3					
Trunkmaster Scanner					
Icom 9700					
BBS					



VHF / UHF



Other radio stuff

- ARDEN
- LORAWAN
- MESHTASTIC
- LORA





Connecting everything up

- RF Patch Panel from old shack
- x2 2-inch conduit runs from attic to new shack (new construction)
- 3 grommets for wires
- Panel to access cables from attic and flag pole



More Details

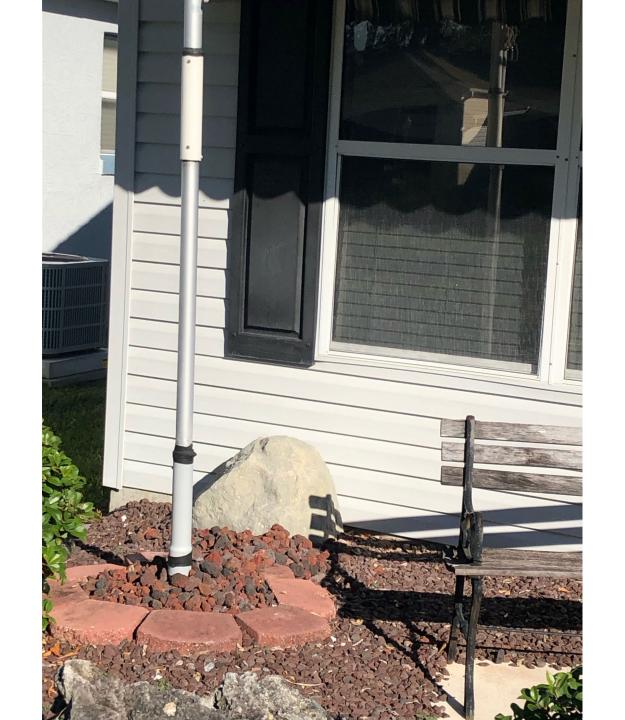
- Blog: k3do.com or mikemyers.me
- Email: mike@k3do.com
- Youtube: https://youtu.be/aOIR4FU5RL4

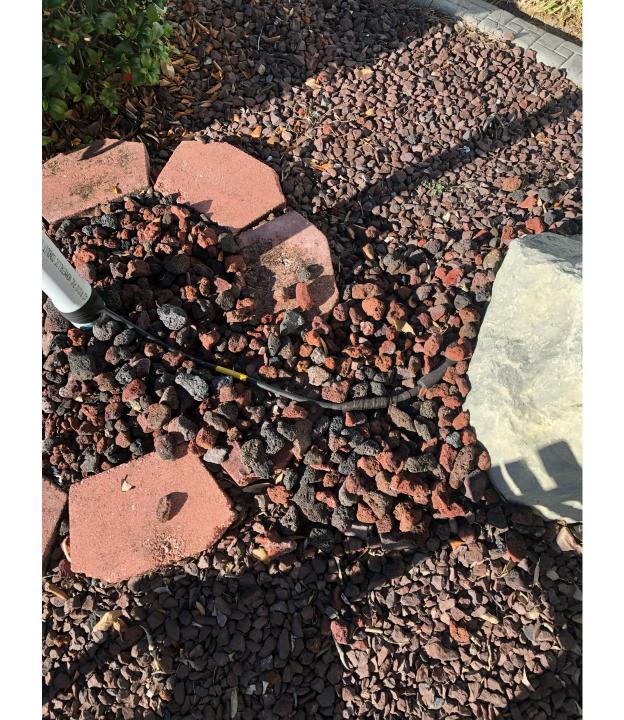
"Tell Us About Your Antenna"

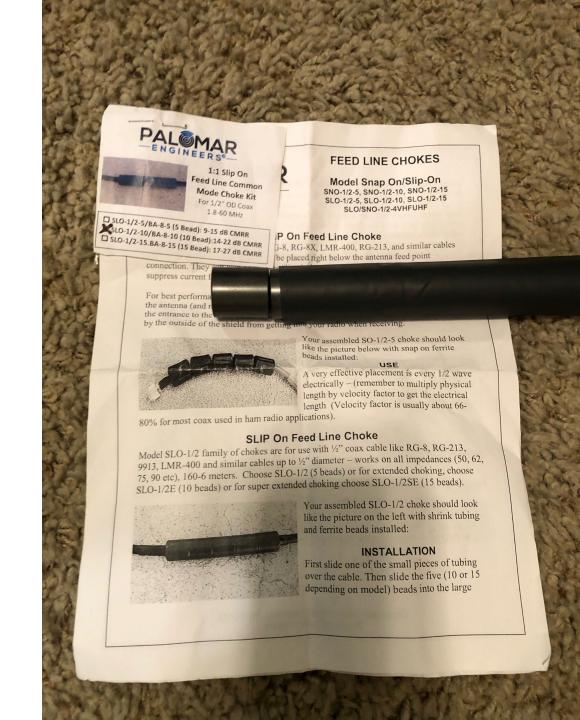
K4CYA

John Randall











My Antenna System Art Fenn KB9MI

MY VILLAGE ANTENNA SYSTEM

ART FENN - KB9MI

ANTENNA BRAND: Hustler 6BTV (6 Band Trap Vertical) Antenna \$300

MODIFICATIONS: Added DX Engineering - Tilt Base \$100, Direct Coax Feed Kit \$34, Radial Plate \$90

INSTALLATION LOCATION: Back corner of my Courtyard Villa Lot

INSTALLATION: On a 3 Foot X 1 $\frac{1}{4}$ inch OD Galvanized steel water pipe,

30 - 12 foot ground radials as needed \$70,

INSTALLED: 2005

STATION EQUIPMENT: Kenwood TS-480 100 Watts

ANTENNA TUNER: LDG KT-100

OPERATIONS: General and DX

MY ANTENNA SYSTEM TODAY'S COST ESTIMATE +/- \$600























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The Salad Bowl Special Sam Micelli, KJ4KJY

The Mixing Bowl Special

Ham ingenuity finds a ground plane amid the kitchen gadgets.

Ed Toal, N9MW

Despite my best defenses, every now and again I find myself on a shopping trip with my wife Sharon, W9RNF. During one of these "adventures" a few years ago, I found myself bored in the kitchen utensils section of a housewares store. Just as my eyes were glazing over, I spotted a stack of stainless steel mixing bowls—on sale, no less.

Picking one up, I noted the diameter was about 12 inches and the distance from the center to the rim on the outside appeared to be a little more than 8½ inches, which is about a quarter wavelength at 446 MHz. I also noticed the flat spot on the bottom was about four inches in diameter. Minutes later I was at the checkout, bowl in hand.

The Transformation

At home, I rounded up an unused 3 foot dual band mobile antenna. This particular antenna .nounted on a SO-239 connector, although with a few modifications to my approach I could have used a mobile antenna with a different mount (such as a 3/8-24 stud). I also located a long threaded female coupler (83-1F), a 1¼ inch pipe flange and a piece of 1/4 inch galvanized water pipe.

As you can see in the photos, the assembly was straightforward. The water pipe was cut to 19 inches. I chose that length because it was long enough to mount the unit to a side arm on my tower and because it might possibly act as a decoupling stage for the coax and/or provide a ground side for the 146 MHz element. Of course, your mounting requirements will likely differ.

To my delight and amazement the indicated SWR was almost flat on both bands — but that was as far as my project went. Distractions intervened and I never got around to actually inalling my Mixing Bowl Span A friend in need of a UHF/VHF antenna saw it lying in my shop and wanted to put it up at his house. I gave it to him on indefinite loan and by all reports he was quite pleased with the antenna's performance. The antenna returned to me years later and was once again relegated to my shop, where it was little more than a dusty curiosity.

A Home at Last

Recently, I decided to put up an antenna for simplex and repeater communication at our cottage. That's when my gaze fell upon the lonely Mixing Bowl Special.



The Mixing Bowl Special with its glearning steel ground plane.

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The best I could do was mount it to a 10 foot TV mast attached to the deck railing. The 19 inch pipe and flange were removed because it was difficult to mount and too heavy for the TV mast. Instead, I installed a stainless steel L bracket that I secured to the mast with hose clamps. To my amazement, the SWR on 146 MHz was still nearly 1:1 and the antenna seemed to work like a champ.

More Exploration

I've since learned a few basics in using antenna analysis programs, but analyzing the Mixing Bowl Special may be a bit tricky. Perhaps with *EZNEC* using many radials with many sections (so a curve could be approximated) one could at least get a sense of why it works on 146 as

> well as 446 MHz despite having only the mixing bowl as a ground plane. Regardless, further testing was in order. I purchased a similar bowl and again used a fully threaded female-to-female UHF coupler mounted in the center of the bowl. My antenna test site was atop a firewood pile about four feet high. In this environment the 19 inch pipe was not used and there were no other metallic objects within several

I used a banana plug in the center conductor and lengths of number 12 solid tinned wire trimmed to ¼ wavelengths on 146 and 446 MHz. The 2 meter ¼ wavelength proved to be a bit longer (21 inches) than expected, but measured in at <1:1.05 SWR on my MFJ269 analyzer.

feet.

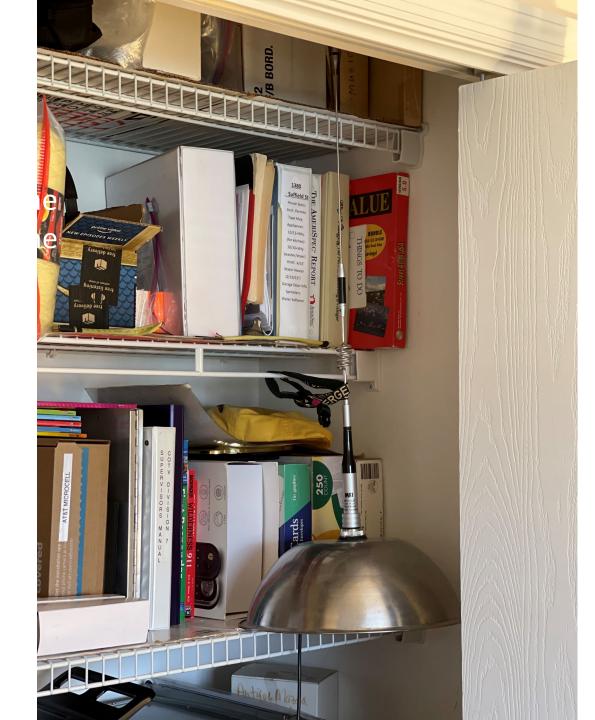
Using a 5 W handheld transceiver I readily accessed repeaters 25 and 50 miles away with full scale readings (no claim to a quantified signal strength intended). On 440 MHz an SWR of <1:1.2 was achieved with an element about 7 inches long. I was able to access a repeater 25 miles distant at full scale as well. As far as I could tell, the stain-

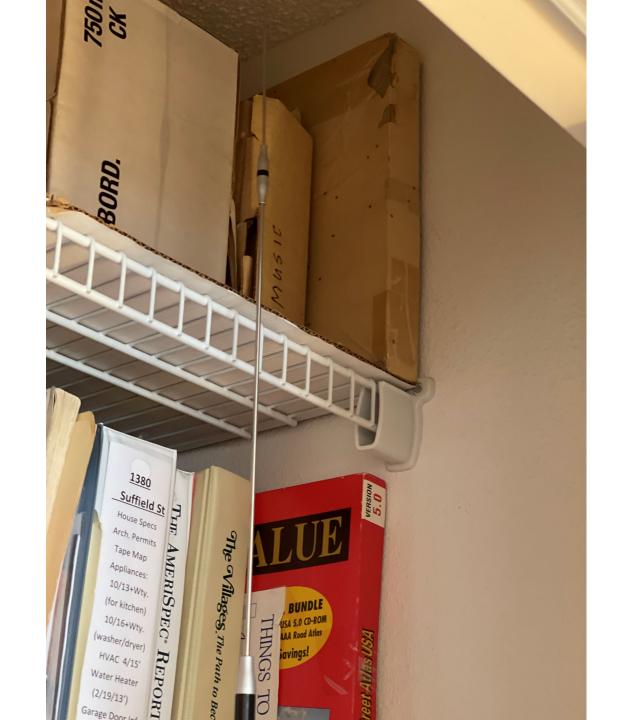
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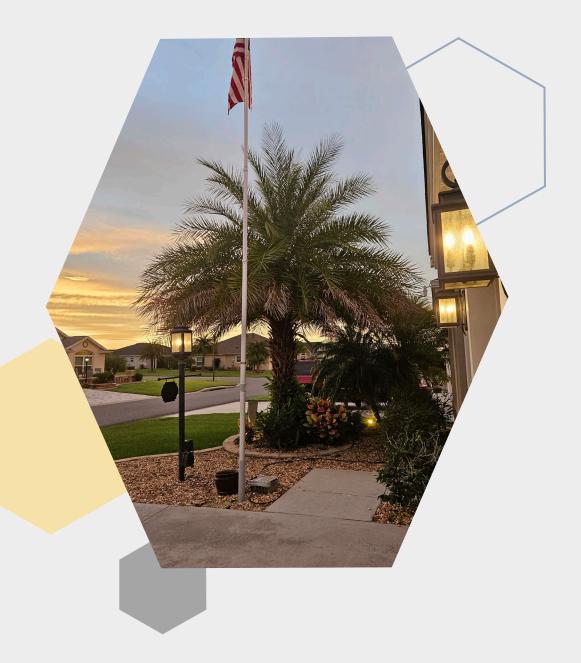






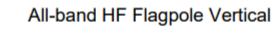
Flagpole w/o Radials For Limited Space

Steve Waterhouse N1JTR



The Solution: 1/2 wave OCF Dipole

Google: W6NBC Antenna



No-radial, 21 ft. free-standing flagpole antenna is inexpensive, works all HF bands, and is neighbor/CC&R proof.

By John Portune W6NBC

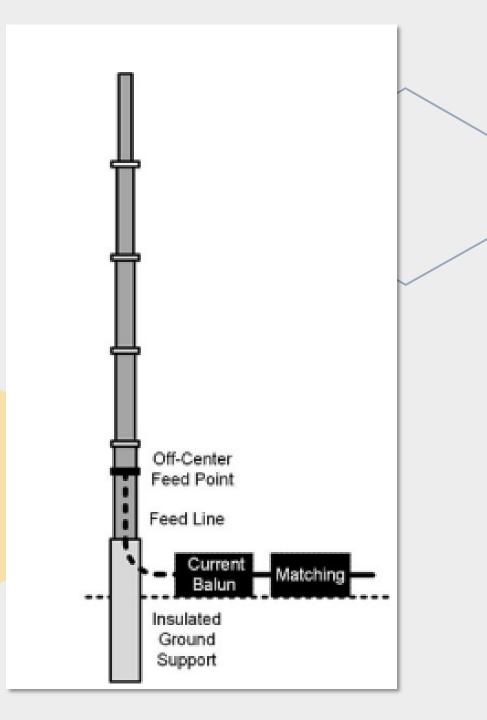


What ham hasn't looked at a flagpole and thought, "That would make a great HF antenna. My neighbors wouldn't have a clue." Great as this idea may sound, home brewing a well-disguised yet efficient HF flagpole antenna isn't as easy as many might think.

These are the challenges. To be both stealthy and a good performer, a flag-flying HF antenna should (1) have no radials (2) be just a plain pole that is externally tuned and matched (3) work multi-bands and (4) be fed coaxially (5) be free standing. Sound difficult? Not so. This attractive patriotic home-brew special (Figure 1), accomplishes all these at modest cost.

The Design: 1/2 wave OCF Dipole

Google: W6NBC Antenna



20 Ft. Telescoping Flag Pole Kit

Add to





Buy It Again

Defenses RBA-1-1 Balan Lacinees Units Annes Units Annes

The Parts:

DX Engineering

LDG Electronics 1:1 Current Baluns RBA-1:1

Part Number: LDG-RBA-1-1

\$29.99

Qty. 1 \$29.99

Buy It Again



LDG Electronics RT-100 Combo Remote Antenna Tuners RT-RC-100

Part Number: LDG-RT-RC-100

\$279.99

Qty. 1 \$279.99

The Issue

2 in. pipe cut to flex into pole





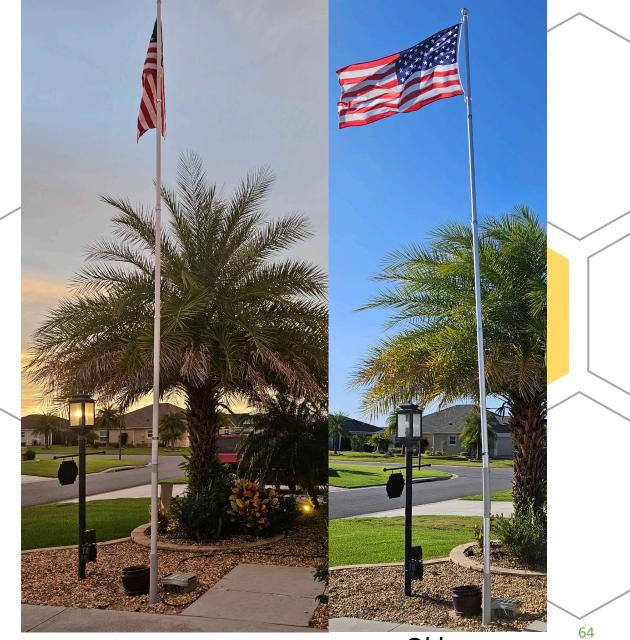
The Fix

1.5 in Pipe1.5 in CouplingsNo Cuts



New vs Old

FB: Amateur Radio In The Villages Google: w6nbc flagpole



Presentation title

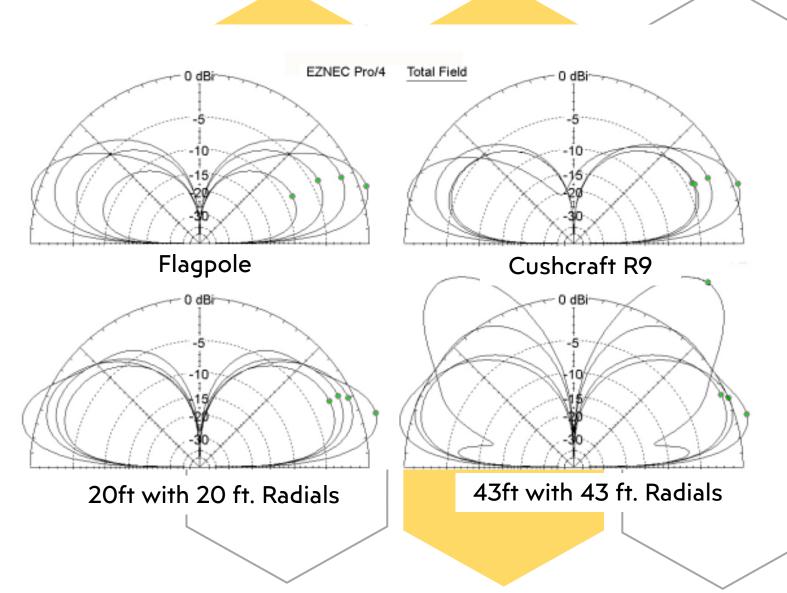


It Works: DXCC & WAS 80-6M

FB: Amateur Radio In The Villages

Google: w6nbc flagpole

Adr: 3263 Kranz Ave.



"Tell Us About Your Antenna"

W2TR Gary Sienkiewicz









Yards On The Air

Faith Olen, N4FMO



YOTA: "Yards On The Air" Where The Trees Are

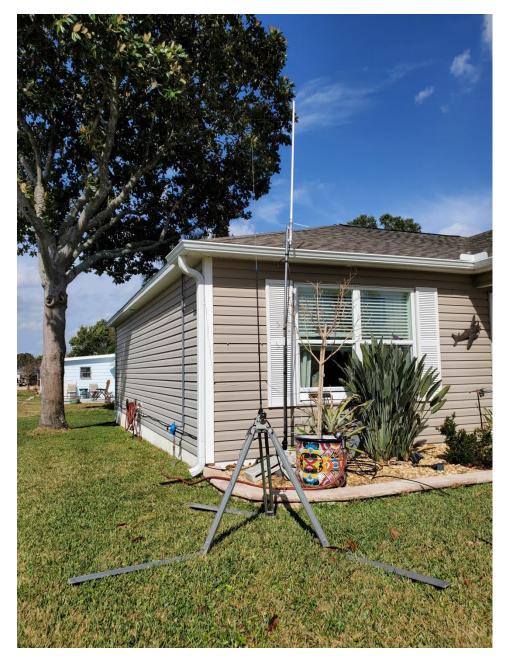
Older And The Antennas Are Taller.





Behind the Bushes





The Journey Begins:

Diamond X50A Dual Band 146/440 MHz

Outpost Tripod For HF HAM Sticks





Dealing with **NO** drilling and **NO** holes restrictions



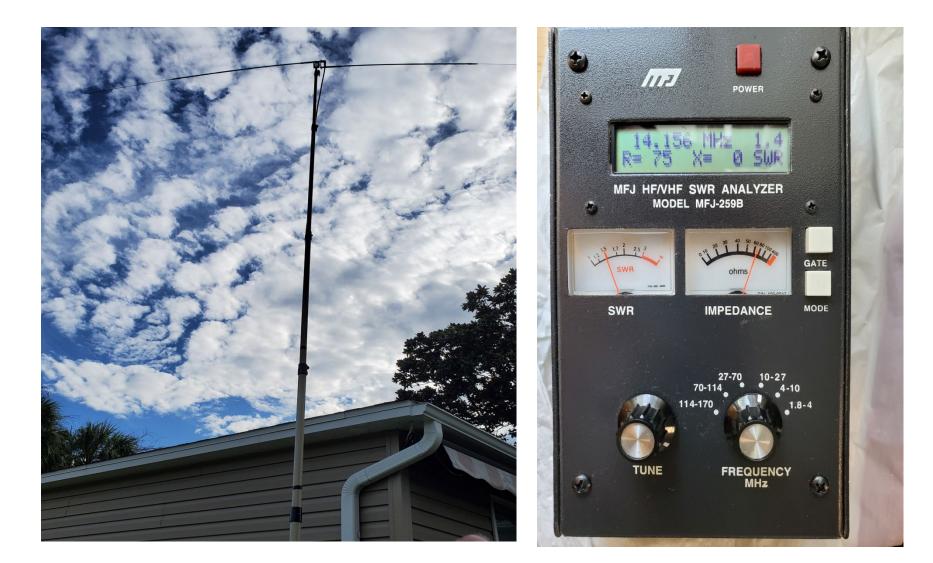
Least Invasive



First Back Yard Experiment Thank You K2DM



20 Meter HAM Stick Dipole Thank You To Another Elmer, W2TR



But.... Wait... I wanted more! Wanted more than a HAM Stick dipole. I wanted a multiband antenna!



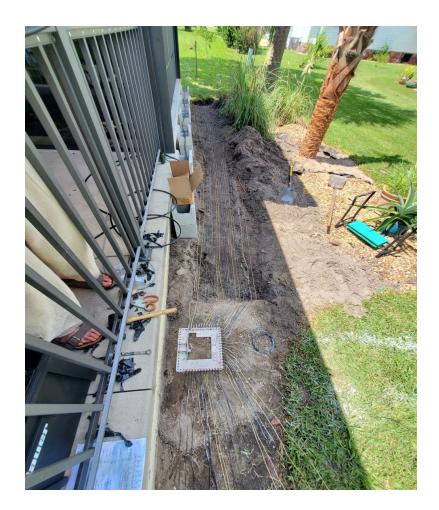


A total of 40 radials were cut for the 80,40,30,20,17,15,12,10 meter bands. It was a great learning experience!

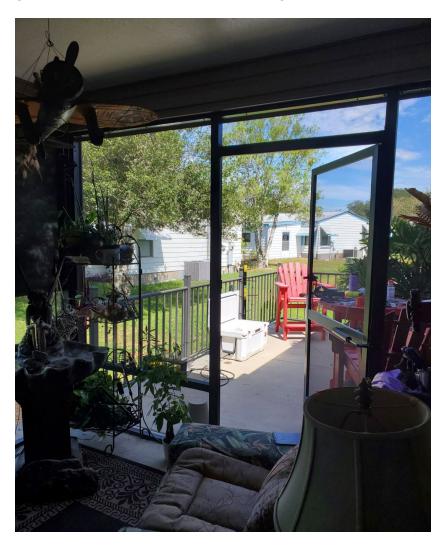


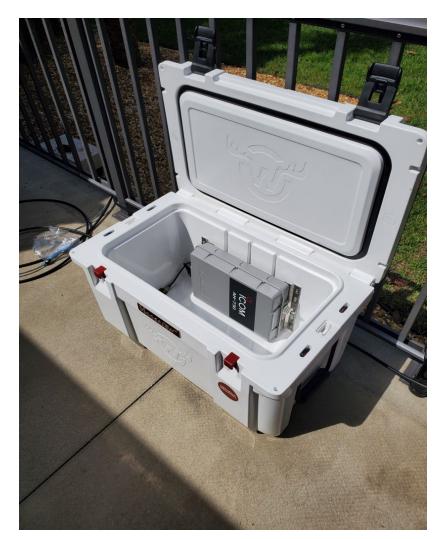
Radial System Installation In Progress





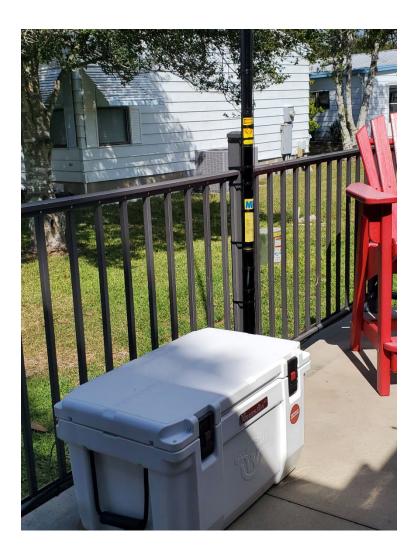
Added The ICOM AH-730 Tuner To Complement My ICOM 7300





Adding a Feedline Choke

Temperature and humidity remote sensor was also added.





MFJ-1910 Fiberglass Pole



Dipole, Vertical And The AH-730 Tuner



Vertical and Dipole, Together, In The Back Yard.



YOTA: Yards On The Air 3 Antennas In The Front Yard 2 In The Back Yard







73 + 88 From "RG" (Radio Girl)



Elmers are wonderful!

They say behind every great Amateur Radio operator there is a great Elmer – hope to some day make all my Elmers proud!

Thanks to all the Elmers in my life.

Special dedication to my first Elmer CWO 4 Bob Olen KE4IPW (SK)

"RG"

N4FMO