Depending on ONE digital repeater made me nervous

- Sure would be better to have backup
 - Under ordinary person control
 - Able to be fixed quickly
 - Able to have antenna replaced
 - Reconfigured easily if necessary (diff freq, etc)
- So a group began to install "residential digital node" --- based on linbpq free software on Raspberry Pi's

We built our digital repeaters to be TRANSPORTABLE to disaster area if need be.



Emergency Digital Highway



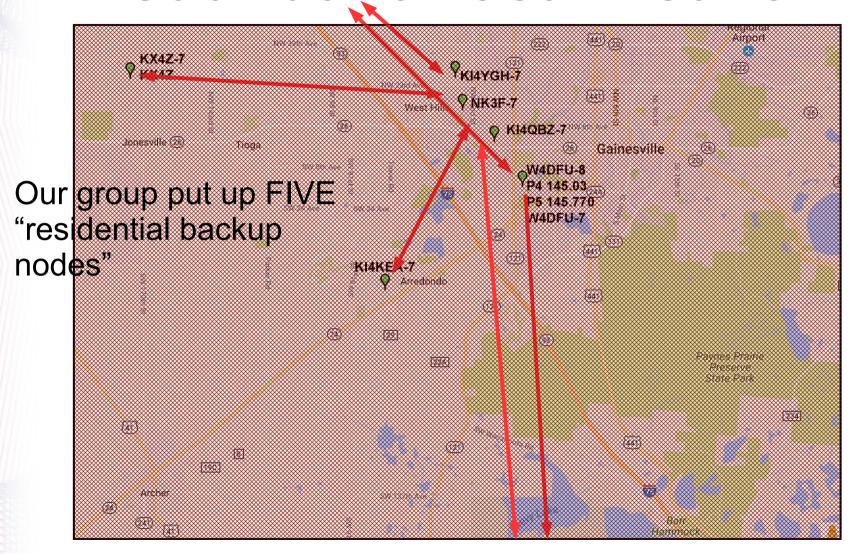
Local network--backup grows!





Jim, Rosemary, Art & Cindy, Tom, Gordon, Mike; The Ocala HEC / ARES / MERT groups

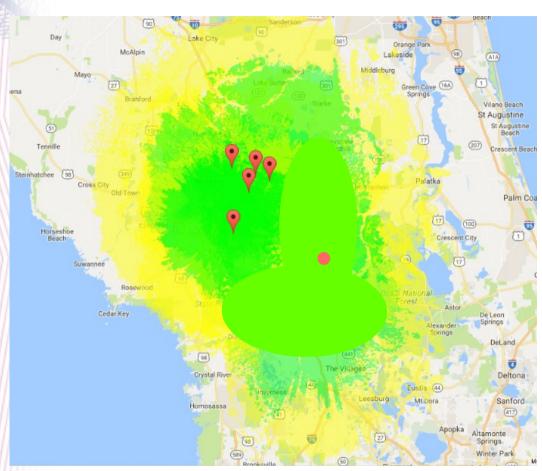
Redundant Local Network



Possible future Nodes -- Williston, Cedar Key, ???

Williston -- WM3B -- is already up!

VHF WINLINK live



VHF communications and catchment area for possible HF relay outward from disaster area now encloses approximately 3,750 sq miles for "good" signal. Likely 1/2 million lives.

Definition: Green =

Green = strong signal yellow = iffy signal.

1.99 uV on 20 foot high antenna at receiving site. Coverages overlap. This plot is an ES-TIMATE, and took some art work to make it readable.

Pages 45 & 50 discuss WINLINK

VHF email access--go box

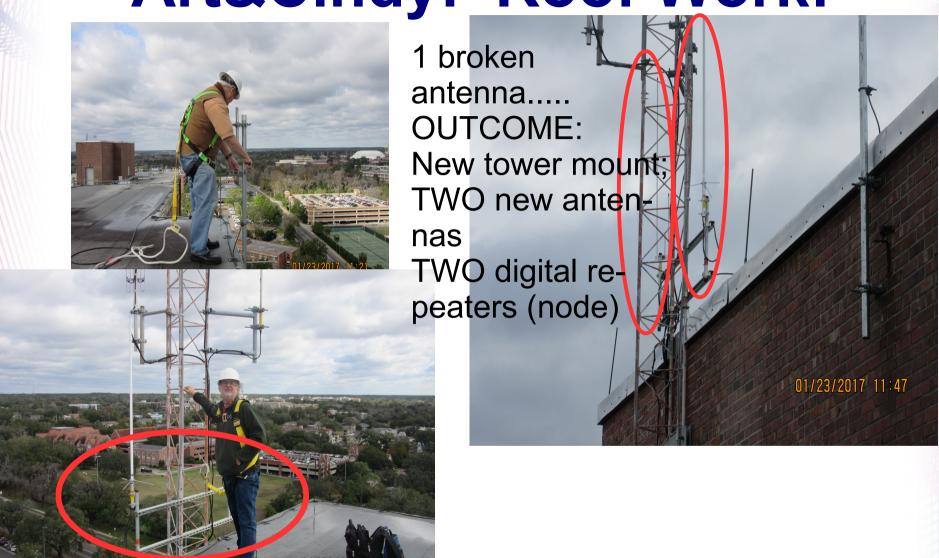


So we built this backup for the solitary SEDAN node.....and sure enough, the SEDAN node



fails

Art&Cindy: Roof Work!



Joe D -- professional! (RFEngineers)

HF Email--legacy/modern



Our local WINLINK EMAIL SERVERS

- KM4YGH-10 Art & Cindy (packet 1200)
- NK3F-10 Tom (packet 1200)
- KX4Z-10 / KX4Z Gordon (packet 1200, WINMOR, PACTOR 1/2/3; HF HYBRID Forwarding
- One government station.
- Probably more on the way!

Hurricane Test - May

- New skills & new assets make possible far more active and "interesting" Hurricane Test.
- Draft Alachua District Emerg. Comm. Plan based on Marion County -- evaluation / improvement ongoing.
- Possible Hospital support.
- Prep for Hurricane Test: backup power, backup antenna, the 3 comm modes, have your wits about you!!

Jeff: ARES GROUP activity



Training: simple circuit construction skills

COAXTAP 5-71/2" from end

Training: antenna construction

Dental Tower: Latest New Antenna (HF 80/40/30)



Upcoming....

- 2nd Ed. of Book
- Build hospital qualified group of volunteers
- Radios Eqpt. hospitals
- Williston gateway
- Addn'l WINLINK
 Hybrid Servers



Amateur Radio Digital & Voice Emergency Communications

Gordon L. Gibby KX4Z BEE MS MD

