

## 03-11-21 Wk2 - NVIS Antennas defined- CHAT

Speaker/Presenter: [Stan Broadway, N8BHL](#) Ohio Section Emergency Coordinator (SEC)

View Video: <https://vimeo.com/523280553>

Download Video: <https://vimeo.com/user107547861/download/523280553/44c74c5df9>

Documents: <https://www.dropbox.com/sh/gfxzm0enoduokr0/AACs7rjHpiT2K38d-AH06pTBa?dl=0>

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**Past RATPAC Presentations:** Published Format- <http://tiny.cc/ratpac-list>

Menu Format- <http://tiny.cc/ratpac-ss>

### Text from Presentation Chat

- 19:10:02 From dan wl7coo CA SJV to Everyone: The Buddy Pole on Steroids looks like a Navy "HighQ".
- 19:15:13 From Bob N0YWB IA to Everyone: The lengths of the antenna wires of the 2259 are for military frequencies - better to use 62' and 32 feet for 80 and 40 meters.
- 19:19:05 From Jay KM4EP NC to Everyone: are these total lengths, or each leg?
- 19:19:17 From Jed N6JED - CA to Everyone: Is 197 number correct? It looks out of place
- 19:19:24 From Steven, KC3DSO, MDC ASEC to Everyone: yes
- 19:19:27 From Steven, KC3DSO, MDC ASEC to Everyone: total length
- 19:19:51 From Stein, KI7CIA, Idaho to Everyone: <https://udel.edu/~mm/ham/randomWire/>
- 19:23:00 From Bob N0YWB IA to Everyone: The terminating resistor snubs out resonance - so length becomes less critical. Some power gets lost in the resistor.
- 19:25:46 From Bob N0YWB IA to Everyone: The feed impedance of an end-fed half-wavelength wire is very high - why we avoid.
- 19:28:55 From Bob N0YWB IA to Everyone: NVIS occurs with any horizontal antenna 1/4 wavelength or lower above ground - but NVIS propagation only works on 40 meters and lower frequencies - reflecting off the D layer.
- 19:29:09 From Dennis N7FZA to Everyone: Are any of these going to be quieter?
- 19:29:16 From Jay KM4EP NC to Everyone: if no 1:1 balun, to what does the coax shield connect?
- 19:29:35 From Tom Horne W3TDH Skywarn DC & Baltimore to Everyone: Shirley Array
- 19:29:35 From Lee WA0UIG IA\_SM to Everyone: OCFD Windom at abt 20 ft
- 19:29:39 From Wayne, kd5jpp La to Everyone: I like my g5rv at 20ft
- 19:30:01 From Jay KM4EP NC to Everyone: got it, thanks
- 19:30:07 From Steven, KC3DSO, MDC ASEC to Everyone: Sotabeams Quad band linked (serial) dipole. Weights under 2.5 lbs.
- 19:30:08 From Steve Schroder to Everyone: Inverted L 30 ft up 130 long
- 19:31:11 From Scott N0MRZ to Everyone: 80-meter dipole, fed with 450-ohm twin lead, hooked to an L network tuner. 12' in the air, making sure twin lead never touches metal, or the ground. Hang it on electric fence posts.
- 19:31:32 From Clem, KH7HO, HI to Everyone: NVIS antenna is key for HF communications in Hawaii. I have an off center fed for 40M and 80M.
- 19:33:07 From Mikhael, W6PE to Everyone: One of these tape measure antennas is nice for flexibility. <http://www.n2ckh.com/HA4000.htm>

19:33:38 From Mikhael, W6PE to Everyone: Here is a mod to make the AS-2259 resonant on 80 and 40.  
[http://www.bridgingagap.com/Emergency%20Preparedness/Emergency\\_Communications/Information\\_2\\_files/NVIS%20AS-2259%20Adaptions.doc](http://www.bridgingagap.com/Emergency%20Preparedness/Emergency_Communications/Information_2_files/NVIS%20AS-2259%20Adaptions.doc)

19:38:10 From Steve Schroder to Everyone: 80 + good distance

19:38:21 From Bob N0YWB IA to Everyone: Most streets and parking garage roofs have an embedded rebar mesh that makes a very effective counterpoise and ground reflector for 40 and 80 meters

19:44:58 From Scott N0MRZ to Everyone: Have to run... 73 gentleman

19:45:01 From Tom Horne W3TDH Skywarn DC & Baltimore to Everyone: We use an Icom AH-4 and an SGC SG-235 that we use for ARES

19:49:58 From Dave N8KBC to Everyone: Have to go to another meeting. Thanks Stan

19:50:19 From Bob N0YWB IA to Everyone: battery clamp to ground to structural steel

19:51:06 From Doug, W4DBL, Port Orange, FL to Everyone: COMMENT: One low-cost way to tension antennas is to use the tiedown straps from Harbor freight or Home Depot with the ratchet.

19:51:28 From Jim, W2KFV, NLI, SM to Everyone: Nice Job Stan...Great presentation...

19:54:17 From Jim, W2KFV, NLI, SM to Everyone: 73 all have to run ...be safe

19:56:13 From Jed N6JED - CA to Everyone: Thank you! A good talk. 73s

19:57:36 From Clem, KH7HO, HI to Everyone: Stan, thank you for your informative presentation. Aloha.

19:59:23 From Scott K2CFM Texas to Everyone: Gotta run, thank you Stan for the presentation. 73

20:00:51 From Dennis W6DQ CA DM15 to Everyone: Stan, great talk. Thank you and VY 73!!!

20:04:01 From Lee WA0UIG IA\_SM to Everyone: tnx stan

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