

09-10-20 WK7 Winlink Series - Antenna Workshop NVIS – **CHAT**

- 19:23:56 From Steve, K4CJX TN: Clip a wire dependent on frequency, to the top of a mobile (vertical) and it will raise the angle and lessen the ground wave. FYI
- 19:24:57 From Bill, W2UDT, NJ: Time to take out the trash! 73, Bill W2UDT
- 19:25:55 From Jon K2LAX: I use an inverted Delta V good as MARS station for NIVIS and DX
- 19:26:04 From Doug, W4DBL, Port Orange, FL: What have you had good luck with in the 200-500 mile ranges
- 19:26:37 From Ray KB1LRL WMA SM: DX Engineering NVIS antenna's running 324-470 dollars
- 19:27:33 From Jon K2LAX: I think Slopers are a good compromise and quick setup for ecomm
- 19:28:20 From Steve, K4CJX TN: Of course, frequency can depend on the time of day, year and where we are on the sunspot cycle.
- 19:29:09 From dan wl7coo CA SJV: Replace the whip on a mobile screwdriver with a short feed line with $\frac{3}{8}$ x 24 threads on the screwdriver end and the center of the horizontal dipole about as high as you can reach from the ground, throw down anything metal beneath the dipole and you are good to go.
- 19:29:34 From Dan Case: Do NVIS antennas generally need to be used with an antenna tuner?
- 19:29:56 From Andy AA0WX NC: It is a common misconception that NVIS antennas should only be used at 10Mhz and lower. This isn't true.
- 19:31:22 From Mitch Carroll - N0ISU: 60M has been the best of both 40 and 80 bands. Pretty quiet band and open almost all day and night for NVIS
- 19:31:28 From W6EDT - Dale - Mission Viejo: when you say that the inverted V should be 45 degrees, is this the included angle between the two elements?
- 19:32:13 From Joe AE5EI IA STM: so, with voice at 3.970 MHz and Digital at 3.5885 MHz. would you need 2 antennas so as not to use an external tuner?
- 19:32:31 From John WY7VAF WY SEC: good presentation
- 19:32:42 From Ray KB1LRL WMA SM: This is some good info. I have been researching and going to build one
- 19:32:47 From Ray KB1LRL WMA SM : https://static.dxengineering.com/global/images/instructions/dxe-uwa8x-kit_uo.pdf
- 19:33:57 From TOM W3TDH Montgomery County Maryland: We have 6 complete AN/GRA-50 Antenna Kits. They are easy to run out to 80 on one leg and 40 on the other off of each side of the center insulator. You can run another antenna from the same insulator for 60 if you need it.
- 19:34:15 From Steve, K4CJX TN: With digital transmissions, mostly OFDM (Pactor type), there is a time constant difference between a ground wave and a sky wave. This multipath distortion can slow throughput considerably. Setting a horizontal antenna too close to the ground enhances this conflict. Also, using a vertical antenna increases the time constant difference. Rule of thumb, go as high in frequency as you can (below the MUF) in order to reduce or eliminate this conflict, and to reduce the overall signal to noise ratio. FYI & thanks for reading
- 19:40:54 From TOM W3TDH Montgomery County Maryland: If you search for the AN/GRA-50 manual on line it is easy to get the same flexibility with hardware store parts.

19:44:34 From John KG7WFQ WA: Here are the specs for the DX engineering NVIS inverted-V for 80m and 40m.

19:45:09 From TOM W3TDH Montgoemry County Maryland: We have used both the Icom AH-4 Coupler and the SGC SG235 coupler to tune the 80 and since it's up there we use it for 40 meters as well.

19:47:53 From Steve, K4CJX TN: Great presentation

19:48:03 From Oscar Resto KP4RF: excellent presentation, thanks

19:48:20 From John KM6DX California: Thank you! Enjoyed the Presentation.

19:48:35 From Dave N8KBC: Good presentation. Thanks

19:49:03 From Ray KB1LRL WMA SM: good stuff!

19:49:23 From Mike K3TEE: Very helpful!

19:49:55 From Jay KM4EP NC: Will the slides be posted?

19:50:33 From TOM W3TDH Montgoemry County Maryland: Especially with certain antennas

19:51:13 From Steve ZL2UCX ZL: That was not strictly correct, VHF and above does not have Skywave, as Skywave implies reflection from the Ionosphere.

19:52:19 From Erv and Dan: Thank you for this! n0xzk from Eastern Iowa

19:52:31 From dan wl7coo CA SJV: Aiming a 3 to 5-degree beam from Microwave dish doesn't have any skywave ... unless you mis what you were aiming at. Cheers, wl7coo