

# RX antennas at IV3PRK: the two-wire Beverage

## FOLLOW UP: the NOISE mystery has been solved

*By Pierluigi "Luis" Mansutti IV3PRK*

### The crossing telephone cable

During all my previous fighting with the noise plaguing all the receiving antennas in the southern part of my lot, I never thought at that telephone cable crossing it. I have been always blaming on the power lines, but I never found anything with a noise-line meter along them.

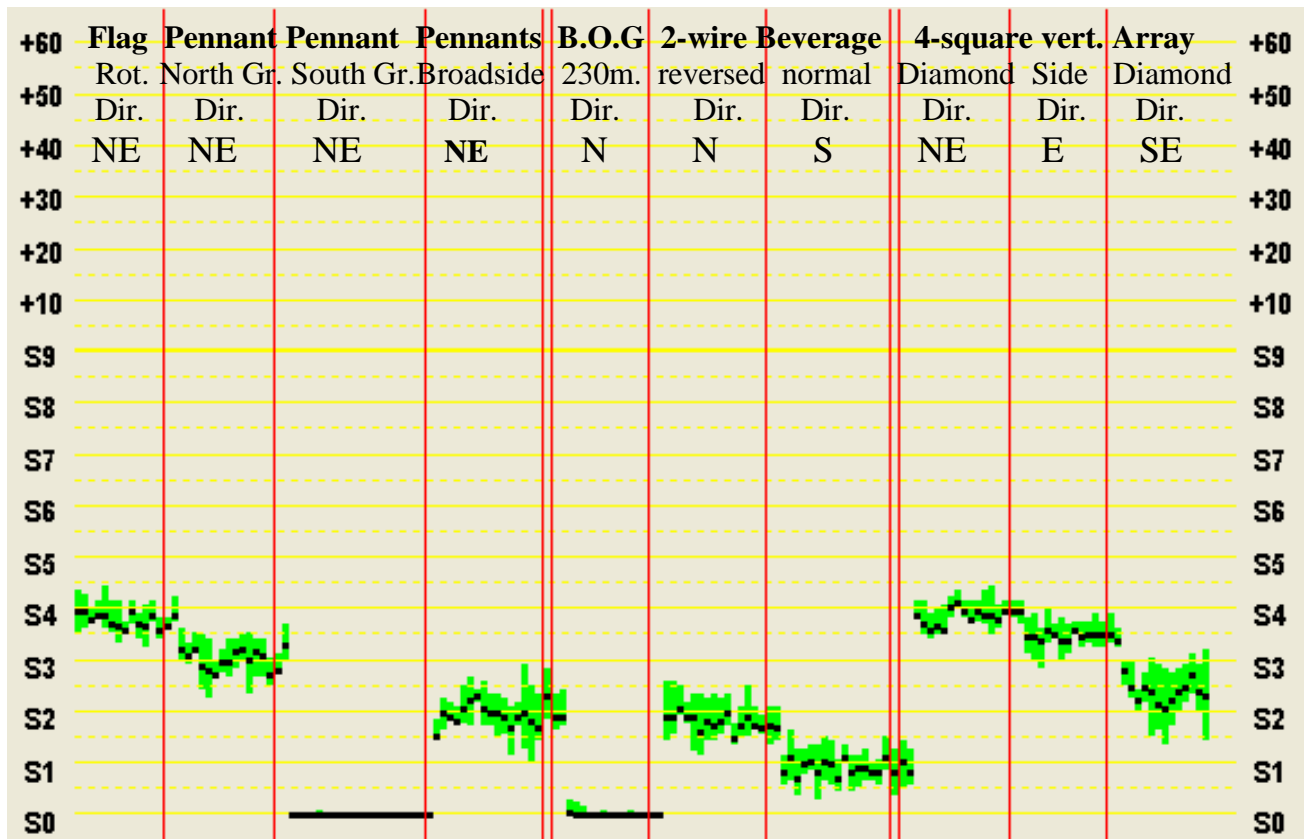
It was only with the building of a new 4-square vertical array that I discovered how much was the difference between one vertical and another depending on their distance from that cable; the full history is documented in this paper: [Rx ant.PRK: 4-square array-part 3](#)

So, after removing the culprit and routing it at ground level, not only the 4 square vertical array came to life, but it could have worked well also the previous K9AY loop, placed in that area. Certainly I can document here the successful progress of the Two-wire Beverage.

At the beginning I had tested this antenna in a new position, shifted to the NNW direction, but in February, looking for a North Pole path, I laid it exactly as it was the last year.

Now the two-wire Beverage works really as it should, with the stations louder on the correct direction, as expected with a satisfying S/N ratio.

These are the S-meter readings of the noise taken today, February 16<sup>th</sup> at 2 PM on 1.830 MHz for different Rx antennas on Icom 756 Pro II with KD9SV preamplifier at abt. 20dB gain.

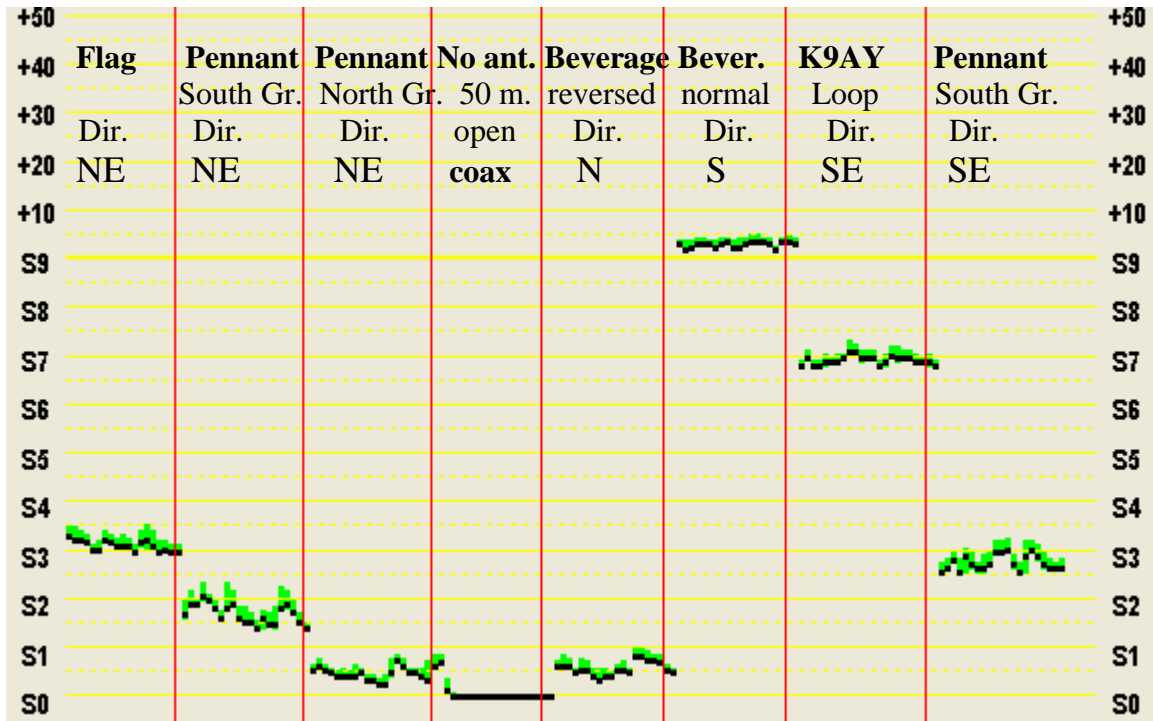


In the meanwhile I stretched out in the northern direction also a "Beverage on Ground" 230 meters long and actually it's quieter than the higher one, but also the signals are much lower without any improvement in the S/N ratio. Quite a difference from the Pennant in the 3<sup>rd</sup> column

which shows the same low noise but, most evenings, is really my best performer into the Far-East direction.

Anyway, at the time of the test the noise seems to come generally stronger from the NE direction, but all within a few dB's almost on all the antennas.

Quite a difference from the previous results shown in the original [Two-wire Beverage paper](#), from which I copy here the graph for the same kind of S-Meter readings taken one year ago, under the influence of the guilty telephone cable.



Unbelievable: that cable was causing 40 dB of noise !

February 2009

Luis IV3PRK