

6 Meter (50 MHz) Delta Loop Antenna: Easy to build and tune

The Pot Lid Net (Sunday 1930, 50.090 CW) and Bob VE3AKV's Almonte Net (Thursday 2030, 50.200 USB) provided the incentive for me to look at improving my limited six meter capability.

For the six meter band I built a Delta Loop and Squalo antennas. As I'm still working on tuning the Squalo antenna, after some less than promising initial testing results, so I will focus on the Delta Loop in this brief article.

My guide for building the six Meter Delta loop was a You Tube video with the appealing title of ["Easy to adjust DIY Delta Loop antenna for 50MHz \(6 meter band\)"](#) which demonstrated a successful antenna which could be built from common materials around the ham shack.

As a requirement the antenna was intended to be horizontally polarized, so the feed point would be at the top or bottom. The triangle or delta shape was inverted with the top being the flat base (1.84 meters) and the sides (2.16 meters) tapering to the point of the triangle which was the feed point where a SO-239 connector closed the loop and made the connection to coax.

As demonstrated in the You Tube video, the tuning of the delta loop simply involved twisting the wire at the feed point to achieve a reasonable SWR for the part of the six meter band you may be interested in tuning in to. The VNA image below shows a scan of the antenna.



Below is the six meter Delta Loop antenna on a mast of fibreglass army surplus tent poles at about 25 feet.



For a 2M/70 cm Delta Loop, check out Gerald DL5BBN's [post](#) that utilizes 210 cm of wire in an inverted triangle shape with a top flat section of 30 cm suspended by window suction cups for easy tuning and shaping of the antenna!

73, Alan VA3IAH

OTHER LINKS OF INTEREST:

[John VA3KOT “ An outside the Box version of a Delta Loop Antenna”](#)

[KB9VBR HF Loop Antennas](#)