

VA7FI's AREDN Setup

Aug 1, 2021

Today I managed to install my AREDN dish up the tree, run the CAT5 to the house, and connect it to the hAP. I started working at 7:45 this morning and finished around 5pm (after climbing up and down three times).

I aimed the dish roughly towards Mount Benson (222°), but unfortunately, I didn't manage to make a connection to the node there. I'll try and go back up tomorrow to see if I can find the correct bearing now that the node is powered up, but I'm done for today.



Oct 31, 2021

Yesterday, the folks on the Island went back to Mount Benson and adjusted the tilt on their antennas. After the adjustment, I started getting an intermittent signal. So today, I went back up the tree and used that signal to fine-tune the adjustment of my dish and managed to squeeze an extra 5-10 dB! Here's a graph of the signal before, during, and after the adjustment:



Unfortunately, it looks like I can hear the Mount Benson node 6-7 dB more strongly than it can hear me. I'm transmitting at 25 dBm (≈ 315 mW). I don't know what their node's power is, but I'm guessing it's a little more than mine.



Here's the status report pages for both nodes. It looks like I might be able to reach 1.6 mbps, which is pretty impressive compared to VHF packet, but still pretty slow compared to the other stations.

