

## Feed tweaking for max performance or Ku

Now that you are tracking the arc on C band, If you think it will benefit you, you can try to "Fine Tune" the focal length and readjust the f/D on the scaler.

This is experimentation, so may be time consuming.

Using the calculated focal length, and calculated f/D usually results with very acceptable C band performance.

If you wish to do so, Adjust feed in or out for maximum Q on C band

The adjustment made usually isn't enough to make a significant change to the f/D setting of the scalar ring, and can be accomplished by only moving the feed, in or out, in the scaler.

If it is a large change, you may want to use spacers to move the feed closer, or further from the dish and readjust the f/D setting on the scaler.

This could be caused by the dish not being a perfect parabola. If it was stored, many years, face down or up, on the ground, the center area could have become "Flattened" , This could also cause Ku operation to become hard to get working.

If you have a C-Ku feed on your BUD, this could be very beneficial on Ku.

Wire in your band select switch, disc or 22khz, whatever you use.

Program a Ku sat accordingly, and look for Q on an active transponder.

This is easier if the sat is C and Ku with active transponders on both.

Drive the dish E or W slightly, as many BUDS may focus Ku

off of where C is focused. Adjust feed in or out for maximum Q.

Adjusting the feed is easier, if the sat is close to the horizon.

(Feed is closer to the ground in most instances)

Also, Polar elevation and Azimuth may have to be "tweaked" slightly.

Also note that an adjustment on Ku will usually be 1/4 of that you made while tuning/aligning the BUD on C band. The BUD "sees" the sky 1.5 to 2 degrees up/dn/E/W of where it is pointed on C band. On Ku, it's may only be .3 degrees or less.

This, in all, may decrease your C band performance somewhat.

It's up to you what you determine as acceptable performance.

(DMX741 C-Ku feed -

I have seen posts in forums where the C/Ku feed focal length was adjusted for good Ku, C band performance was virtually dead, and vice-versa. Some have obtained good C and Ku by modifying the feed itself.)

Good Luck, and Happy Satellite Hunting.