Fresnel Coverage

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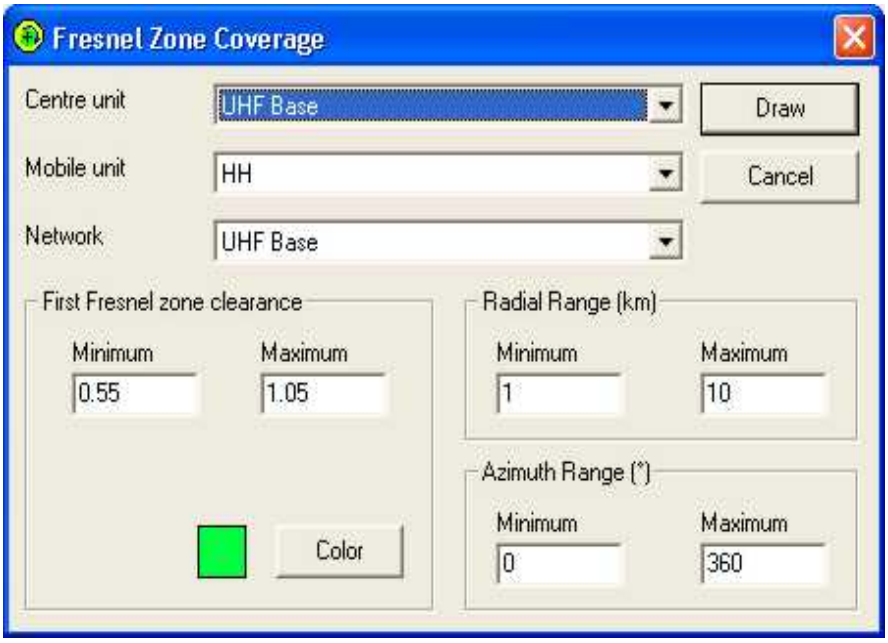
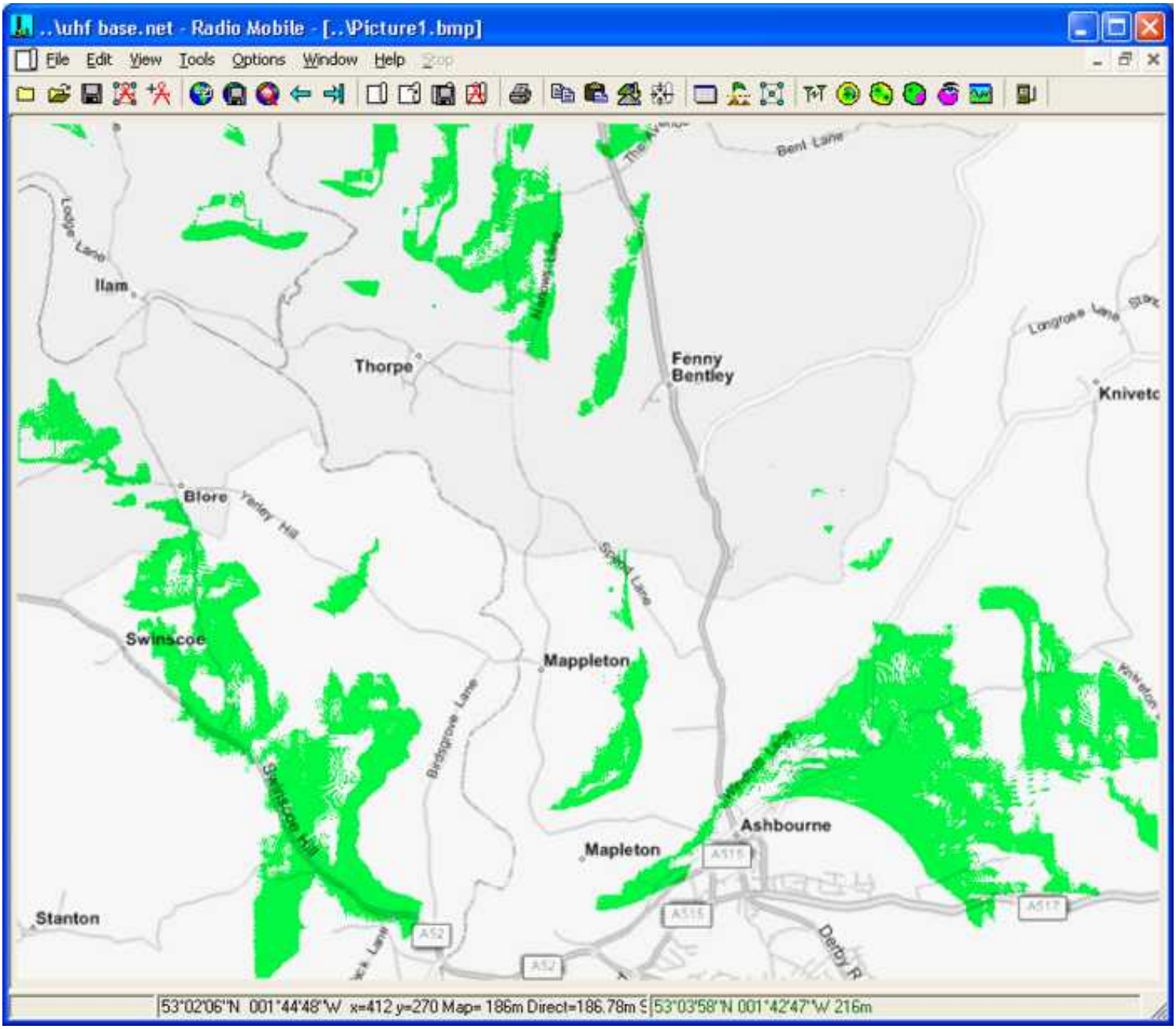
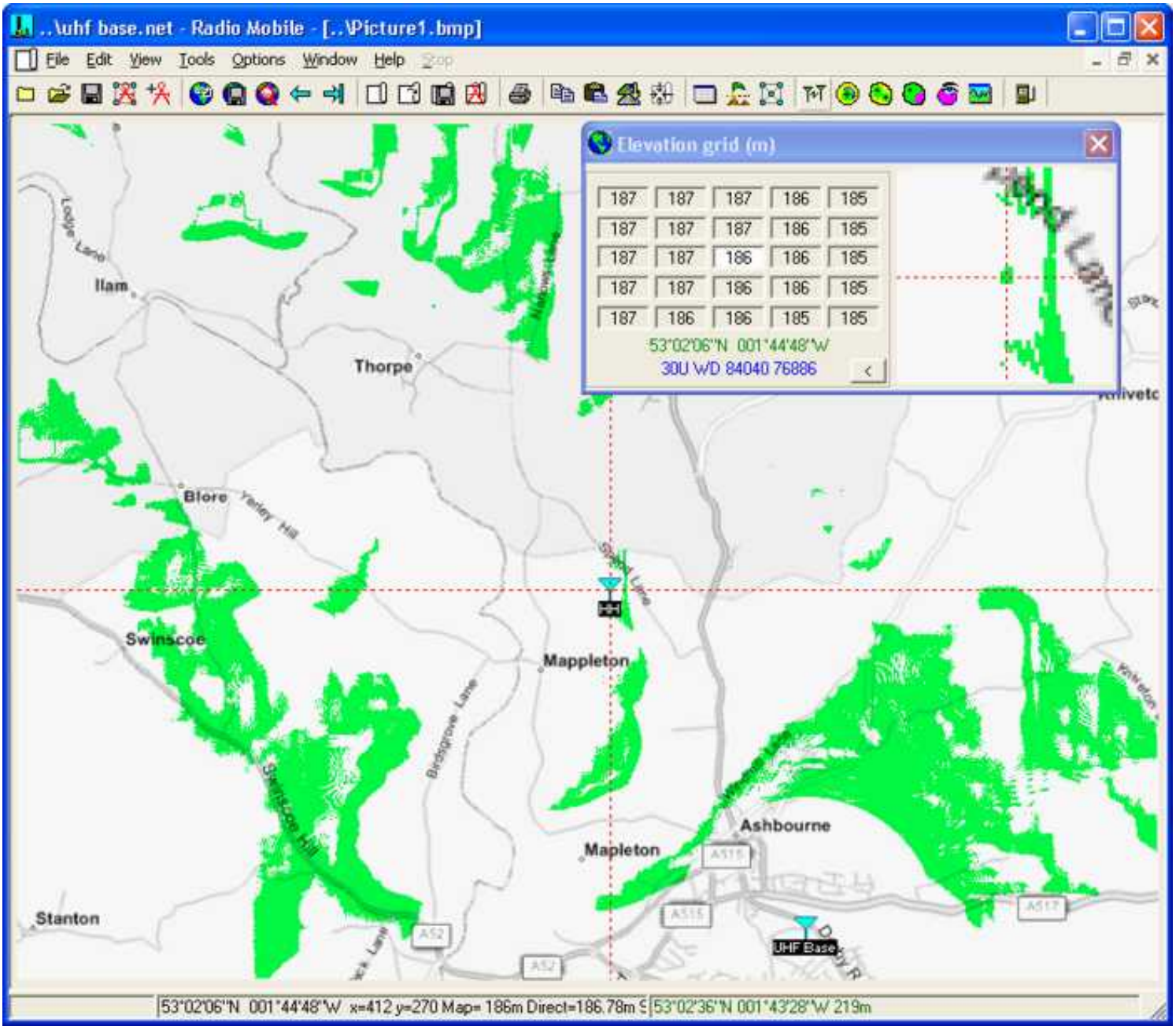
The pane below is obtained from 'Tools/Radio Coverage/Fresnel', where the wanted Fresnel Zone clearance margins are set, units are selected, plot colour is selected and the radial and azimuth ranges defined for the plot. This plot was produced using a reduced area UHF version of my 'Base Network' to better display the effects:



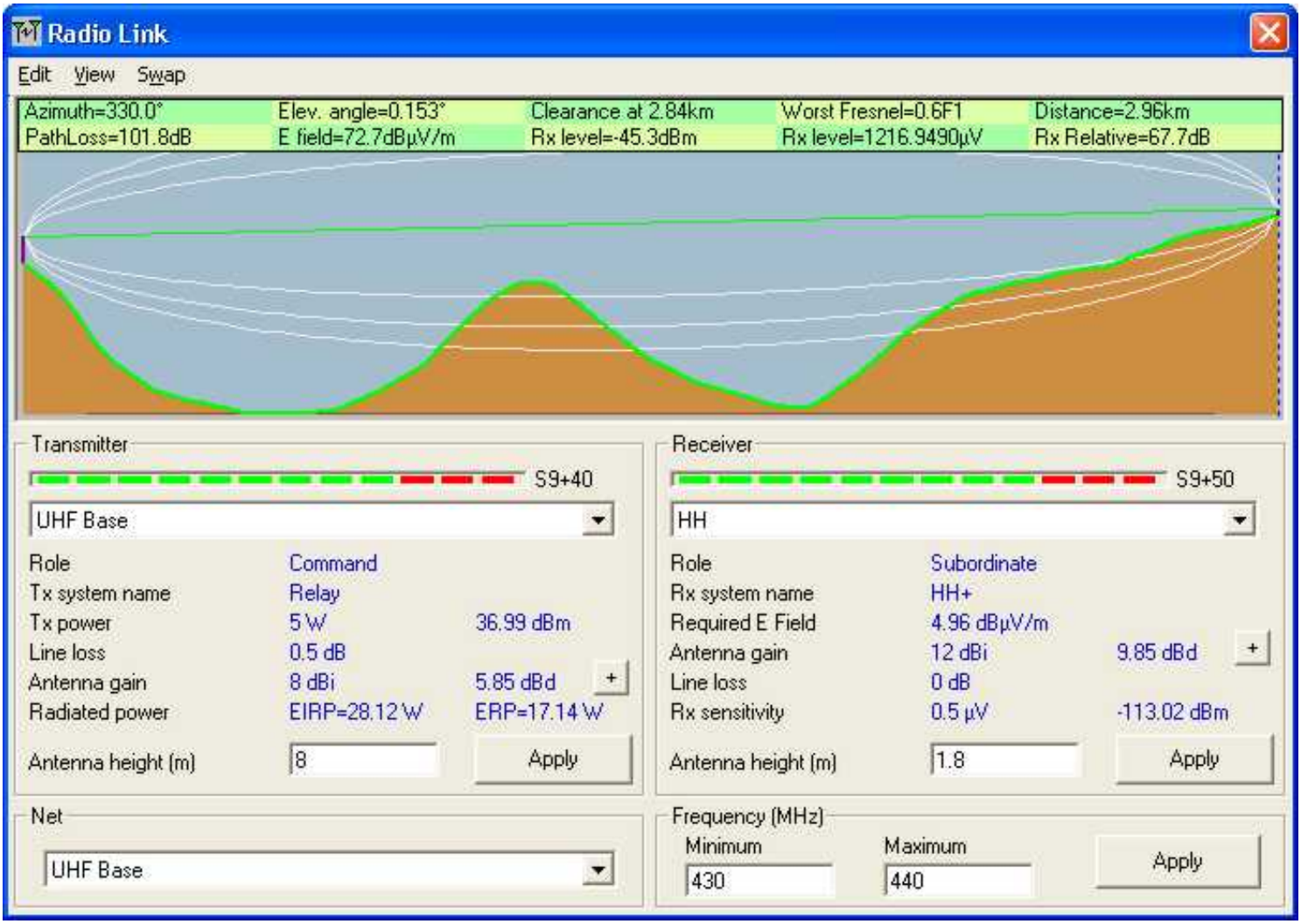
Clicking on 'Draw' then produced the following plot over a greyscale road map:



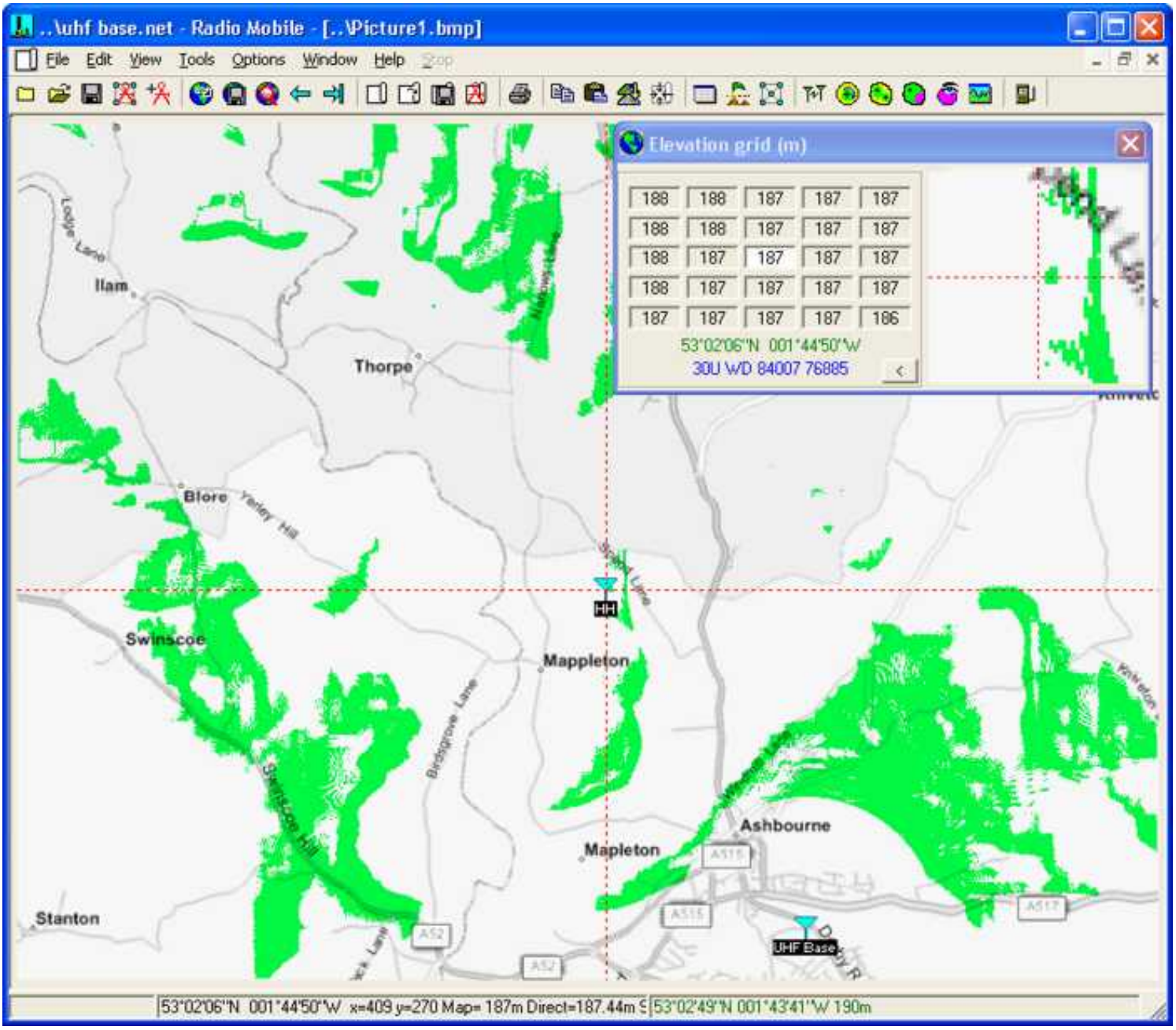
Using the Elevation Grid viewer, the cursor was placed in the small 'acceptable limit' green area shown, and the HH Unit then moved to the cursor position:



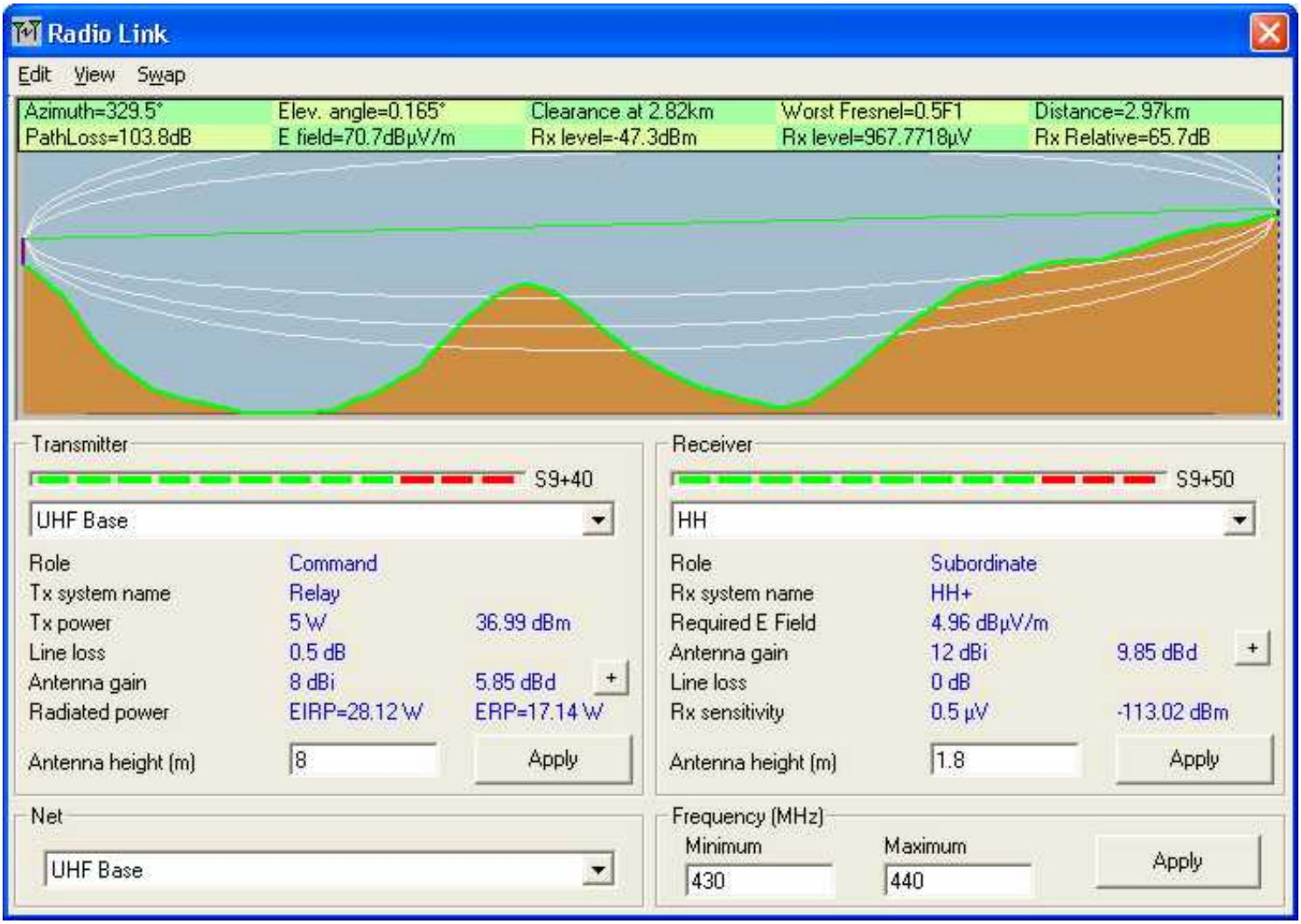
Opening the Radio Link pane then showed the Worst Fresnel clearance of the path was 0.6F1 - which is within the limits set.



Moving the cursor outside the acceptable area as shown in the Elevation Grid viewer, and placing the HH unit at the new location as below:



Then opening the Radio Link pane once more showed this location had a worst Fresnel clearance of 0.5F1 - which is outside the limits set:



Radio Coverage | Single Unit | Multiple Unit | Style coverage

Best Unit | Interference | Fresnel | Detailed Area

Polar Plots

This page is available in .pdf format here

Please keep checking back for updates/additions.

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7th May 2009