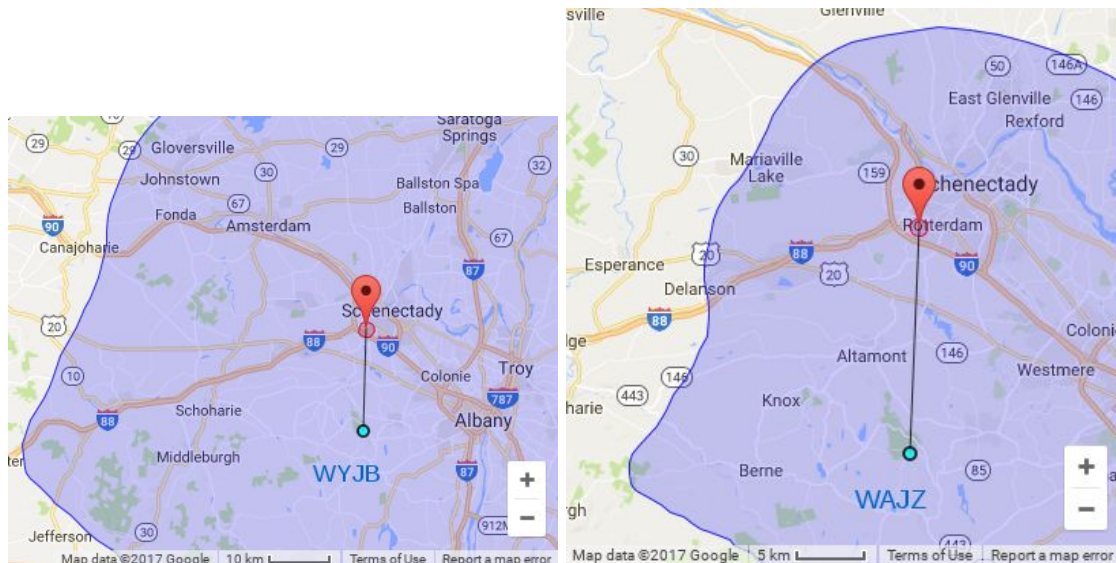


## 73.870(a)(1) Reduced-interference Showing

WOOS-LP seeks approval for a minor relocation and a non-adjacent channel change, necessitating this showing to comply with 73.870(a)(1).

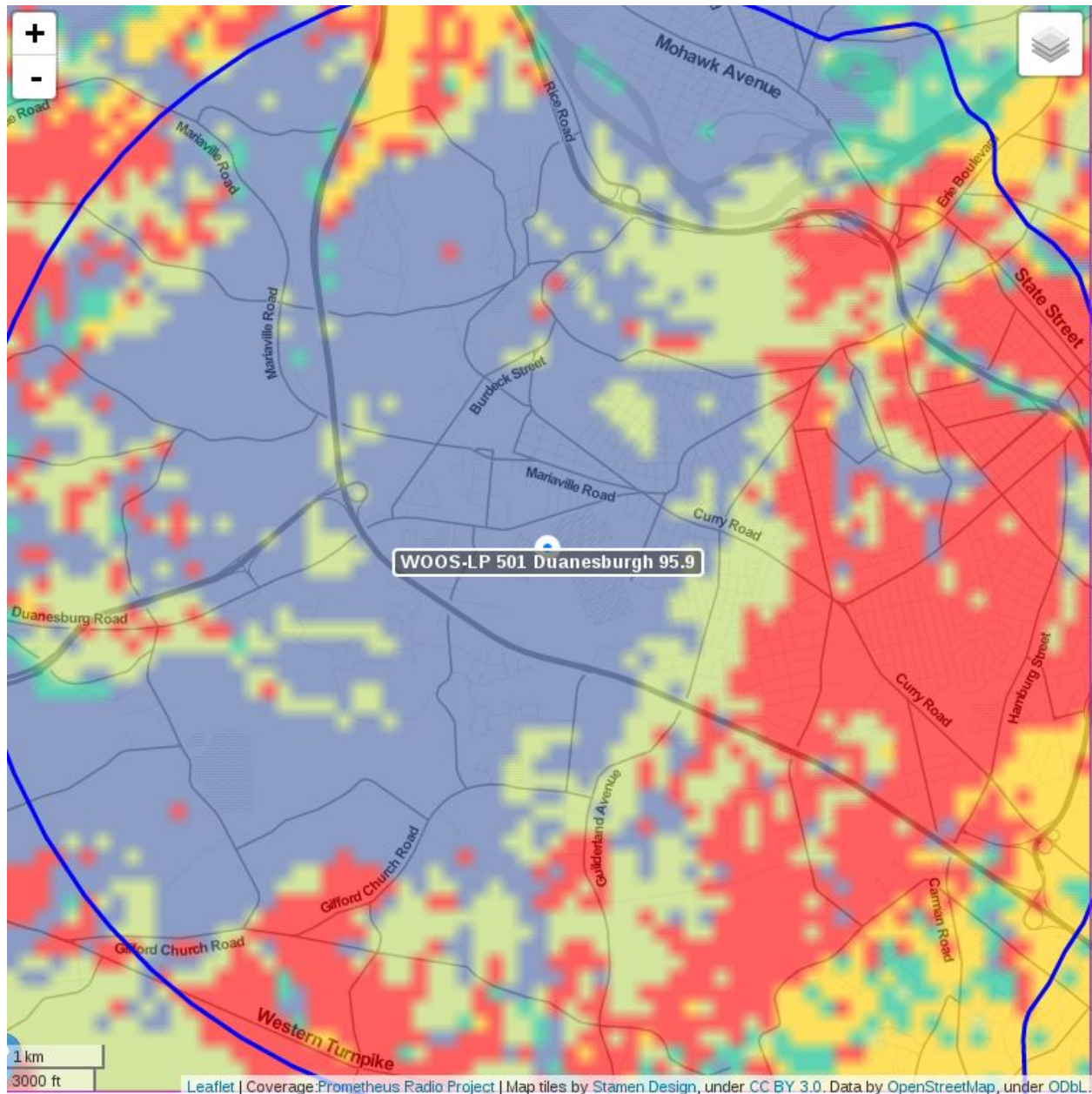
On the currently-approved channel, 24-, at both the currently-approved location and the proposed location, WOOS-LP is short-spaced on second-adjacent with two stations, and is located well within the protected contours of those stations. The maps below show this contour overlap at the proposed site, where the red shading around the pin is WOOS-LP's interference contour and the blue shading is the other station's protected contour.

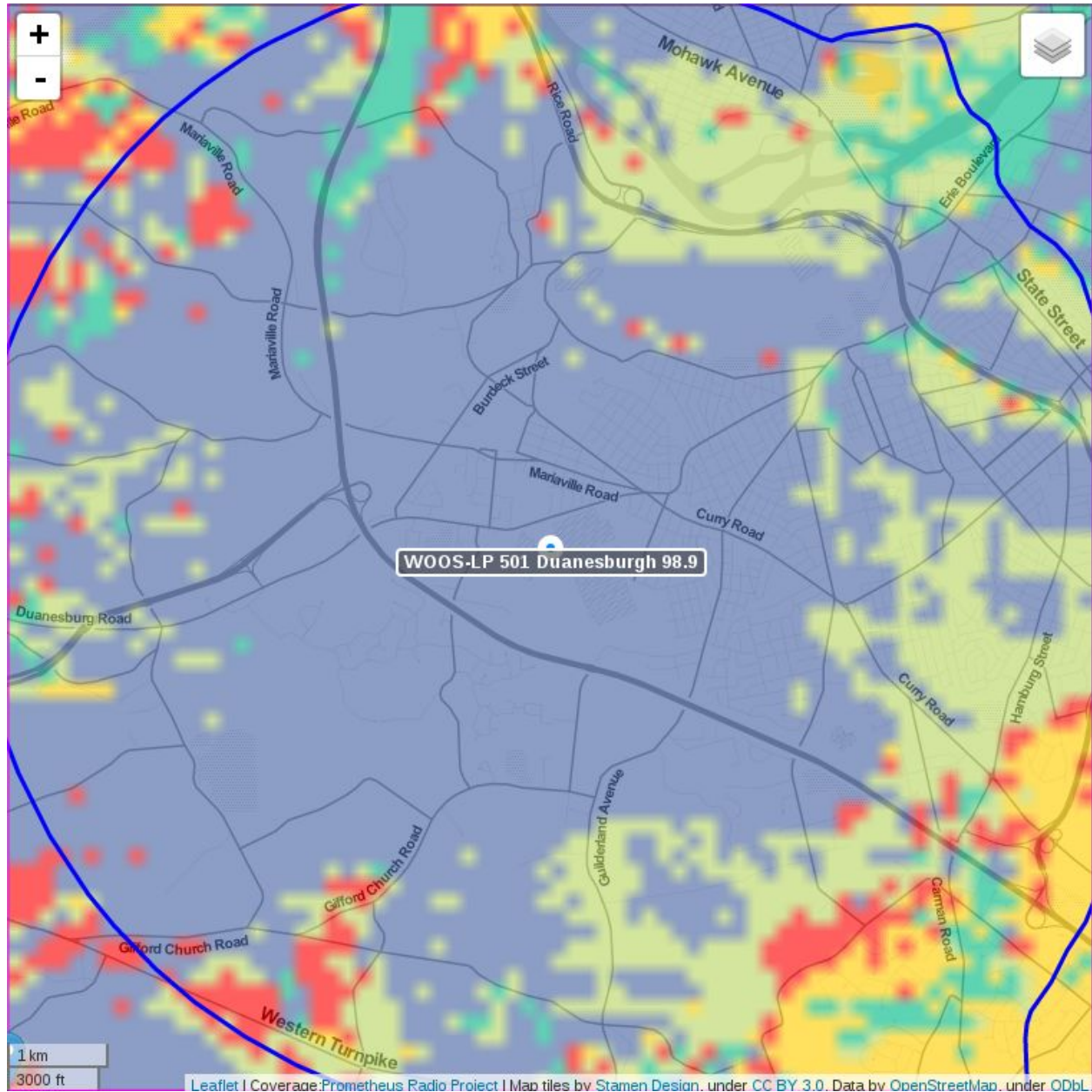


WOOS-LP seeks to escape this potential second-adjacent interference by switching to channel 255 which has no short spacings.

Additionally, Longley-Rice predicts heavy interference to channel 240 within the protected contour from two co-channel stations, and considerably less interference on channel 255. The Longley-Rice maps below show predictions for channel 240 and 255 respectively at the proposed location.

On these maps, the blue line is WOOS-LP protected contour as proposed. Blue shaded areas meet FCC standards of at least 60 dBu desired signal strength, protected with customary interference ratios (-20, -4, +40). Red and pea-green shading denotes areas receiving at least 60 dBu desired signal strength, but which do not satisfy FCC interference ratios, so have predicted interference. The reduced interference superiority of channel 255 is self evident.





Based on this showing of reduced interference, WOOS-LP respectfully requests that the proposed non-adjacent channel change be considered as a minor modification as specified in 73.870(a)(1)