

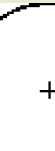
TV6 Calculation for Cold Brook, NY

TV6 Call sign: WRGB Fcc Search: 35.1 dBu

City: Schenectady State: NY

COR AMSL (m): 654 HAAT(m): 396

Latitude: 423731 Longitude: 740038

 TV ERP (kW): 4.640

FM Horizontal ERP: 0.560

☒ Outside City Of 50k

47 47 1

Plot Scale: 250 ☒ DLG ☐ AJPI

☒ Hide Zeros ☒ TIGER

☐ Plot All Centroids

☒ Plot Inside Centroid Counts

☐ Plot All Centroid Counts

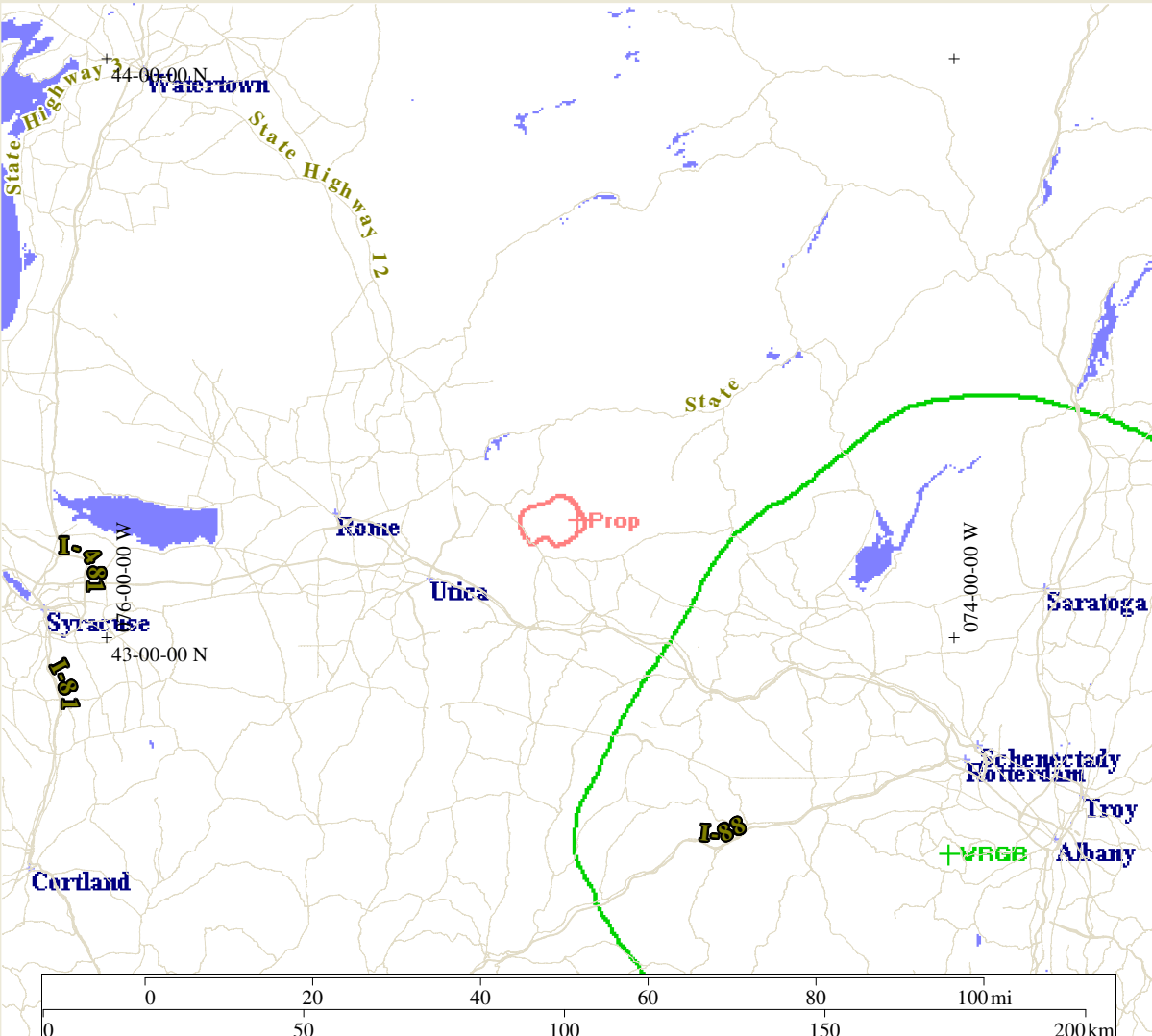
☒ Plot Contours

☐ Print All Centroids to: -3 dBu

☐ Print Centroids

☒ Print TV Contour Table

Comp: Copy F Copy L PrintText Print Form



Channel Six TV Protection Study

WRGB	06	4.640kW ERP	654.0M COR AMSL	396.0M HAA	Lat. 423731	Lon. 740038
Prop	216	0.560kW ERP	548.0M COR AMSL	143.2M HAA	Lat. 431201	Lon. 745317

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Distance from TV to FM 95.9930km  Azi 131.7degr  Rev Azi 311.7 degr
Cutoff radius for channel 216 is 177 km
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The FM horizontal polarization component is 0.560 kW,
and the area of just perceptible interference does not intersect a city of 50k,
so the effective ERP is $(P_v/40+P_h)$ 0.5740kW

The TV6 signal strength at the FM transmit site is 35.082 dBu
For F centroids (centroids where the TV6 signal strength is less than 68 dBu and
which are also +/-70 degrees from line from the FM station to the TV station)
a 6 dB bonus is added to the allowable FM signal.

TV Contour	Undesired/Desired Ratio	Total	Directional	Total
47	28.1	75.0	81.0	

Population in affected area	0
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2000 Block Centroids used