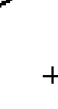
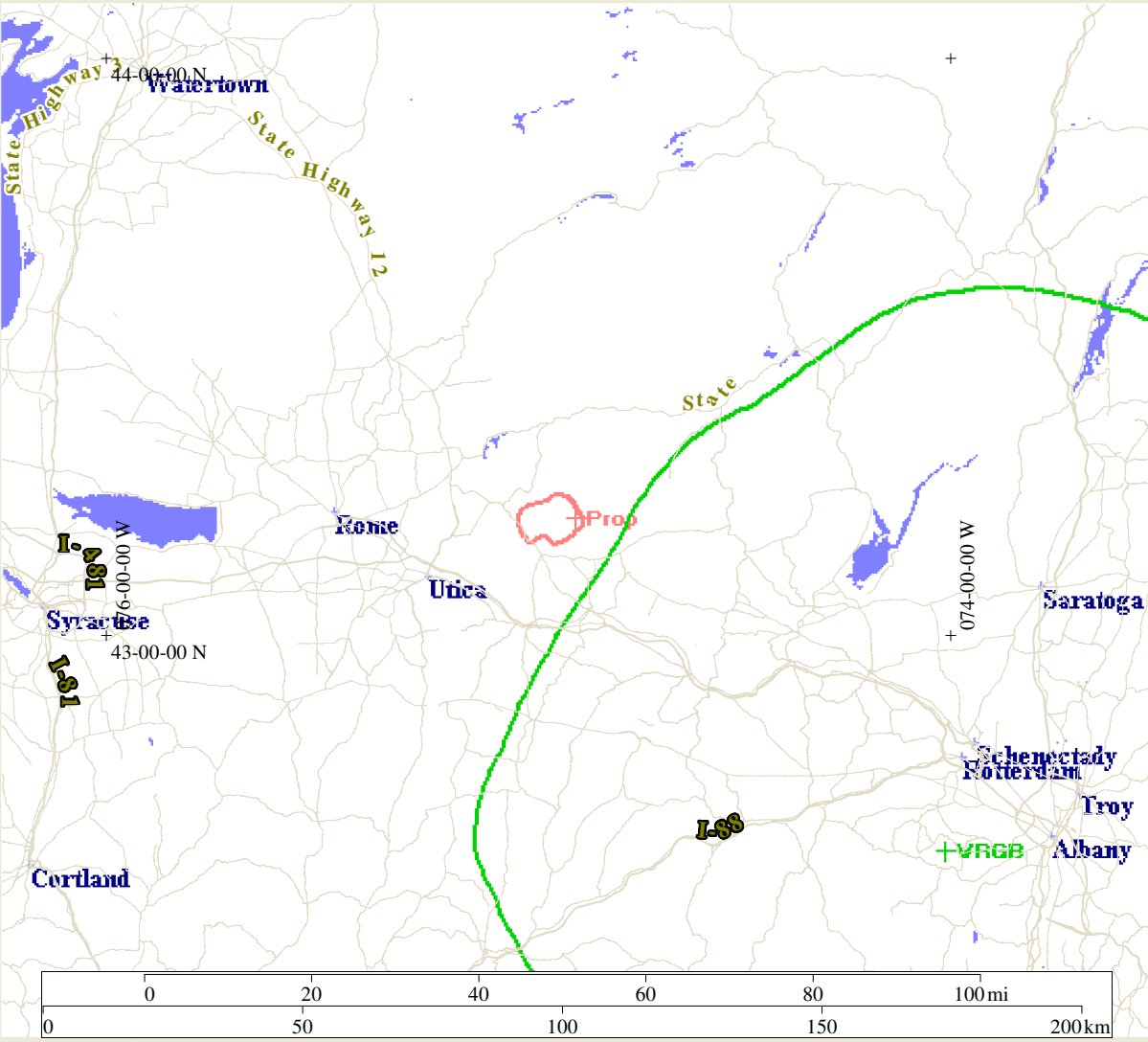


TV6 Calculation for Cold Brook, NY

TV6 Call sign: WRGB
 FCC Search: 43.1 dBu
 City: Schenectady
 State: NY
 COR AMSL (m): 650
 HAAT (m): 392
 Latitude: 423731
 Longitude: 740038

 TV ERP (kW): 30.200
 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 PrintText Print Form
 Copy I



Channel Six TV Protection Study

WRGB	06	30.200kW	ERP	650.0M	COR	AMSL	392.0M	HAAT	Lat.	423731	Lon.	740038
Prop	216	0.560kW	ERP	548.0M	COR	AMSL	143.2M	HAAT	Lat.	431201	Lon.	745317

```
Distance from TV to FM 95.9930km  Azi 131.7degr  Rev Azi 311.7 degr
Cutoff radius for channel 216 is 177 km
```

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 43.066 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