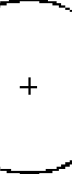
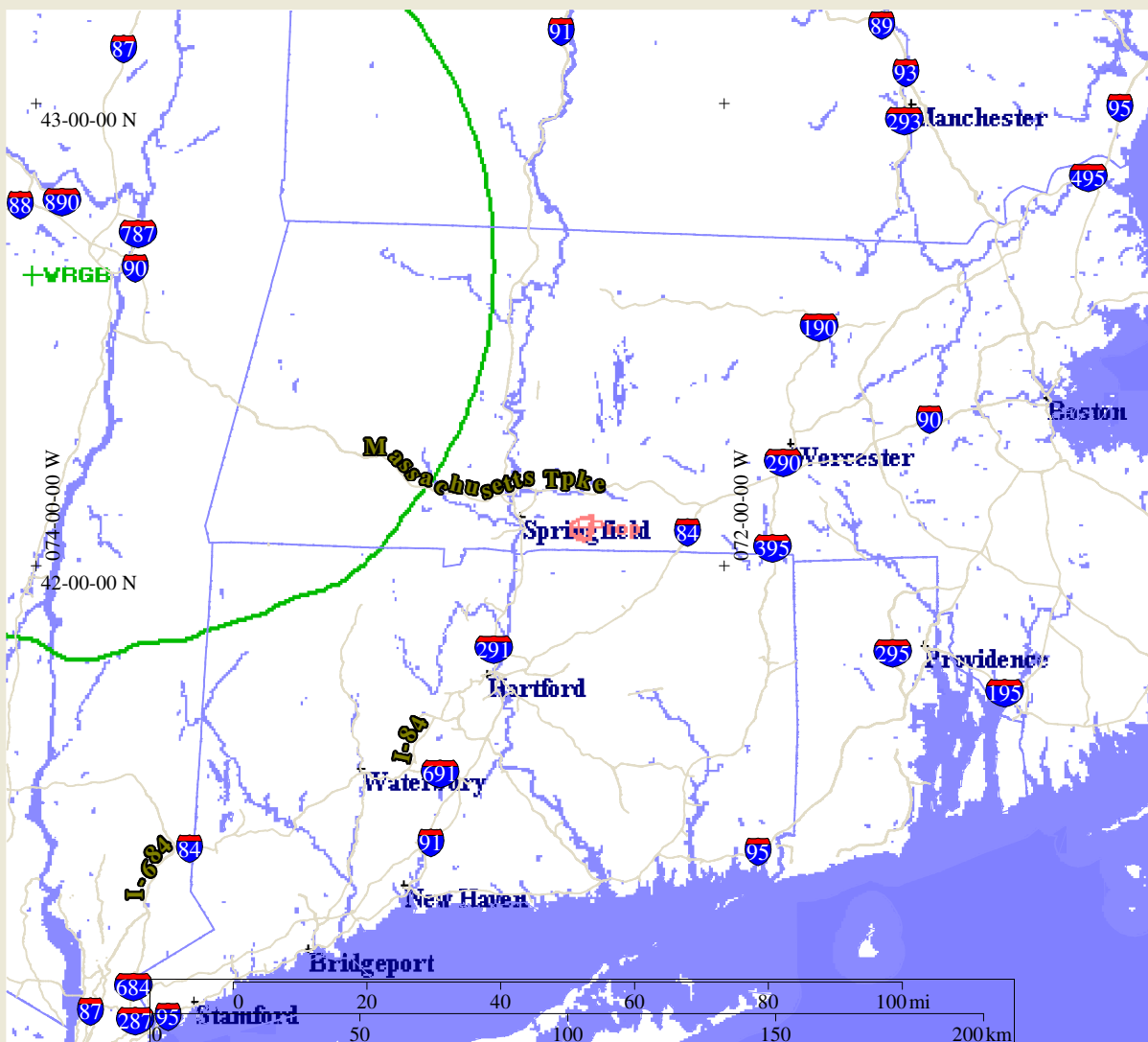


TV6 Calculation for Baptist Village, MA

TV6 Call sign		Fcc Search	
WRGB		35.2 dBu	
City		State	
Schenectady		NY	
COR AMSL (m)		HAAT(m)	
650		392	
Latitude		Longitude	
423731		740038	
		TV ERP (kW)	
		30.200	
		FM Horizontal ERP	
		0.033	
<input checked="" type="checkbox"/> Outside City Of 50k <div style="float: right;"> <div style="background-color: green; color: white; padding: 2px 5px;">TV</div> <div style="background-color: red; color: white; padding: 2px 5px;">FM</div> </div>			
47	47	1	
Plot Scale			
200		<input checked="" type="checkbox"/> DLG <input type="checkbox"/> AJPI	
<input checked="" type="checkbox"/> Hide Zeros <input checked="" type="checkbox"/> TIGER			
<input type="checkbox"/> Plot All Centroids			
<input checked="" type="checkbox"/> Plot Inside Centroid Counts			
<input type="checkbox"/> Plot All Centroid Counts			
<input checked="" type="checkbox"/> Plot Contours			
<input type="checkbox"/> Print All Centroids to		-3 dBu	
<input type="checkbox"/> Print Centroids			
<input checked="" type="checkbox"/> Print TV Contour Table			
Comp	Copy F Copy I	PrintText	Print Form



Channel Six TV Protection Study

WRGB	06	30.200kW	ERP	650.0M	COR	AMSL	392.0M	HAAT	Lat.	423731	Lon.	740038
Prop	208	0.033kW	ERP	259.0M	COR	AMSL	117.5M	HAAT	Lat.	420500	Lon.	722459

```
Distance from TV to FM 144.4847km    Azi 294.6degr    Rev Azi 114.6 degr
Cutoff radius for channel 208 is 196 km
```

The FM horizontal polarization component is 0.033 kW,
and the area of just perceptible interference does not intersect a city of 50k,
so the effective ERP is $(P_v/40+P_h)$ 0.0338kW

The TV6 signal strength at the FM transmit site is 35.232 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	20.4	67.3	73.3	

Population in affected area	0
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2000 Block Centroids used