

TV6 Calculation for Dalton, MA

TV6 Call sign
WRGB

Fcc Search
50.2 dBu

City
Schenectady

State
NY

COR AMSL (m)
654

HAAT(m)
396

Latitude
423731

Longitude
740038

TV ERP (kW)
4.640

FM Horizontal ERP
0.160

☒ Outside City Of 50k

TV

FM

Plot Scale
4000

☒ DLG

☐ AJPI

☒ TIGER

☐ Plot All Centroids

☒ Plot Inside Centroid Counts

☐ Plot All Centroid Counts

☒ Plot Contours

☐ Print All Centroids to
-15 dBu

☐ Print Centroids

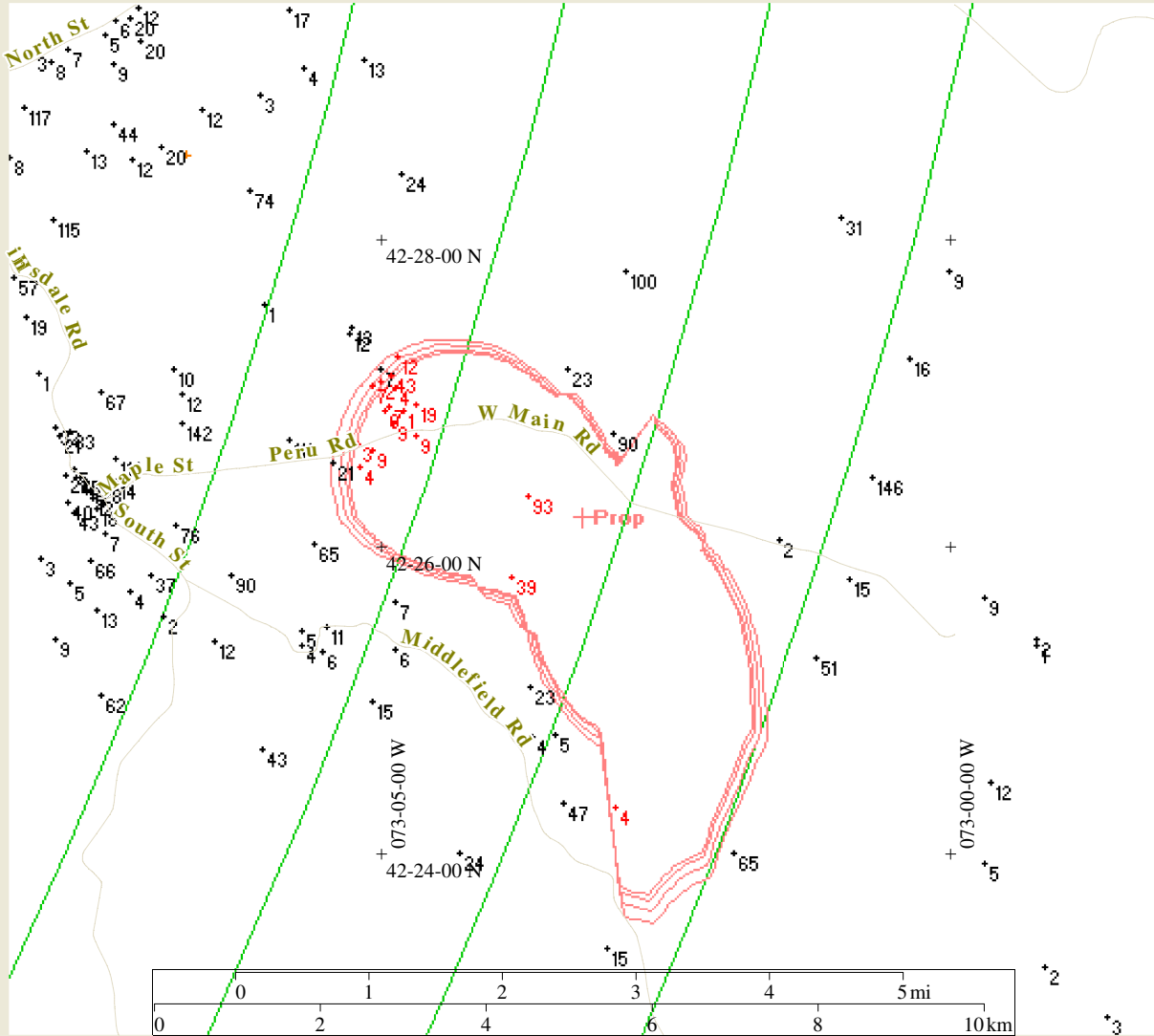
☒ Print TV Contour Table

Comp

Copy F
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PrintText

Print Form



Channel Six TV Protection Study

WRGB	06	4.640kW ERP	654.0M COR AMSL	396.0M HAAT	Lat. 423731	Lon. 740038
Prop	219	0.160kW ERP	776.0M COR AMSL	298.1M HAAT	Lat. 422611	Lon. 730314

Distance from TV to FM 81.3534km Azi 284.9degr Rev Azi 104.9 degr
Cutoff radius for channel 219 is 159 km

The FM horizontal polarization component is 0.160 kW,
and the area of just perceptible interference does not intersect a city of 50k,
so the effective ERP is (Pv/40+Ph) 0.1640kW

The TV6 signal strength at the FM transmit site is 50.213 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
49	34.0	83.0	89.0
50	32.8	82.8	88.8
51	31.5	82.5	88.5
52	30.2	82.2	88.2

Population in affected area 271

2000 Block Centroids used