

TV6 Calculation for Youngsville, PA

TV6 Call sign
CIITV

Fcc Search
29.0 dBu

City
Paris

State
ON

COR AMSL (m)
604

HAAT(m)
316

Latitude
431539

Longitude
802639

+

TV ERP (kW)
100.000

FM Horizontal ERP
2.5

☒ Outside City Of 50k

TV

FM

Plot Scale
150

☒ 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

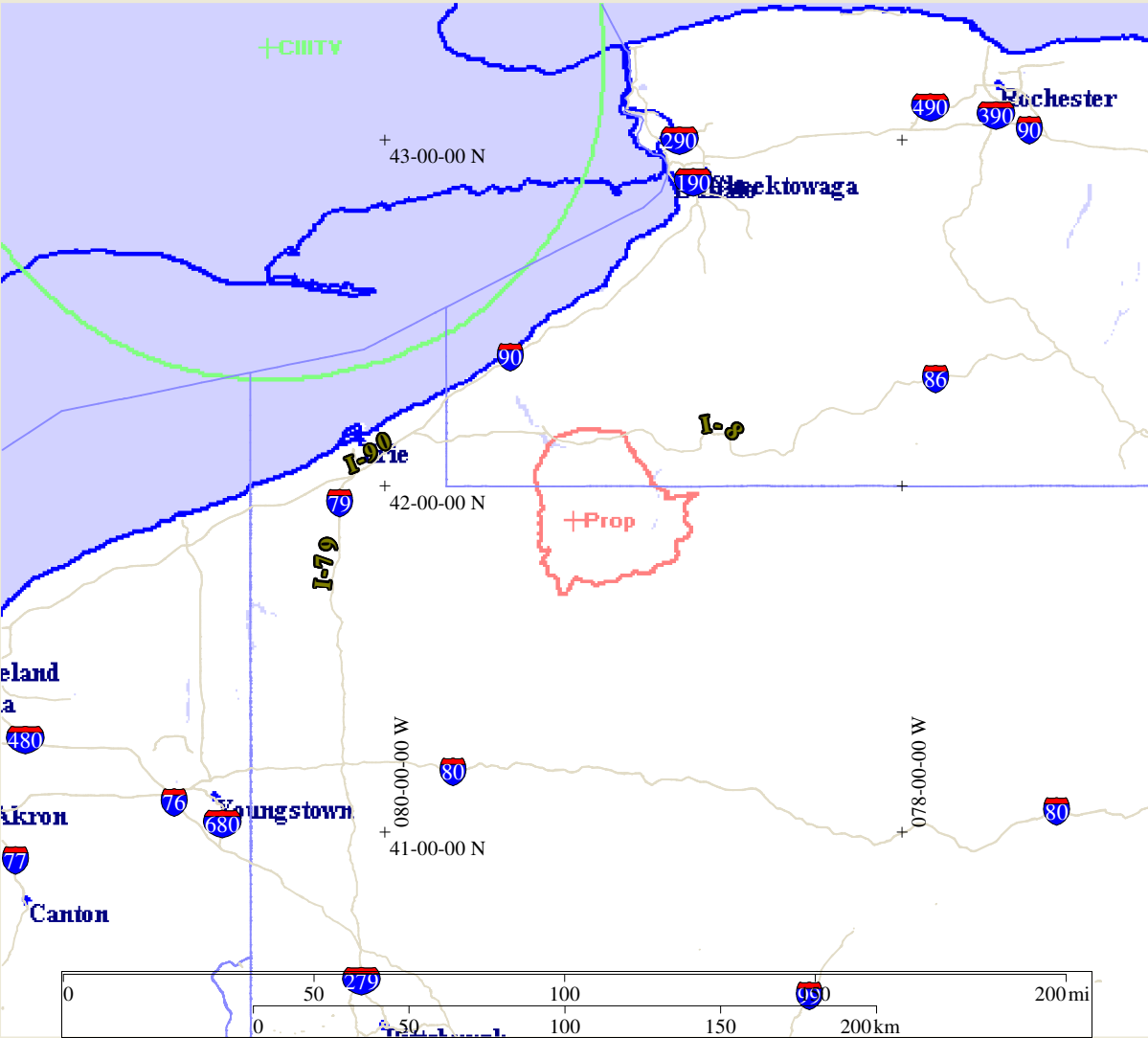
Comp

Copy F

Copy I

PrintText

Print Form



Channel Six TV Protection Study

| | | | | | | |
|-------|-----|---------------|-----------------|-------------|-------------|-------------|
| CIITV | 06 | 100.000kW ERP | 604.0M COR AMSL | 316.0M HAAT | Lat. 431539 | Lon. 802639 |
| Prop | 203 | 2.500kW ERP | 612.0M COR AMSL | 130.0M HAAT | Lat. 415407 | Lon. 791541 |

Distance from TV to FM 179.4832km Azi 327.2degr Rev Azi 147.2 degr
Cutoff radius for channel 203 is 246 km

The FM horizontal polarization component is 2.500 kW,
and the area of just perceptible interference does not intersect a city of 50k,
so the effective ERP is (Pv/40+Ph) 2.5625kW

The TV6 signal strength at the FM transmit site is 29.003 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 | 6.5 | 53.5 | 59.5 |

Population in affected area 0

2000 Block Centroids used