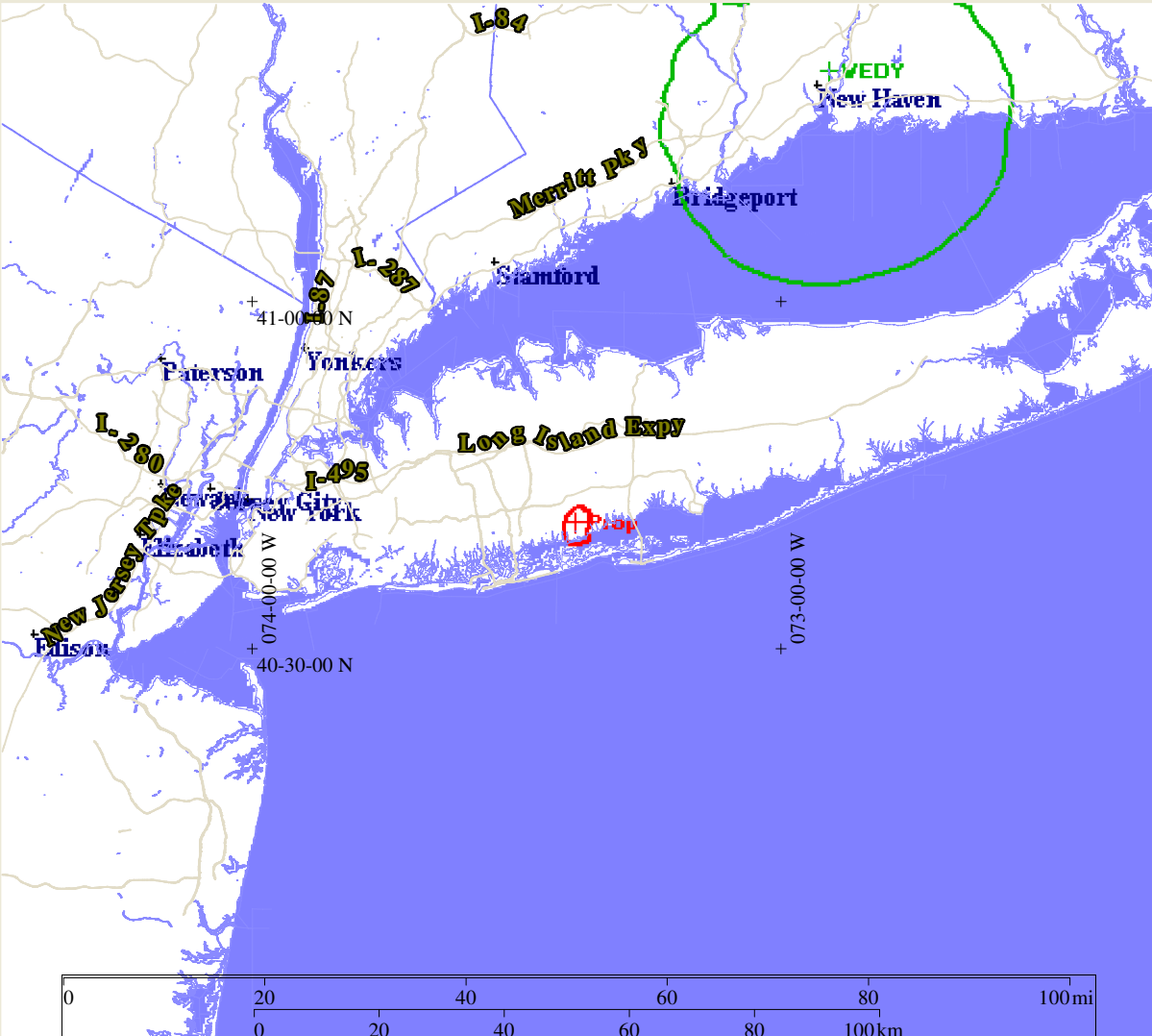


TV6 Calculation for Copiague, NY

TV6 Call sign: WEDY
 FCC Search: 24.4 dBu
 City: New Haven State: CT
 COR AMSL (m): 132 HAAT(m): 88
 Latitude: 411942 Longitude: 725425
 TV ERP (kW): 0.400
 FM Horizontal ERP: 0.110
☒ Outside City Of 50k
 47 47 1
 Plot Scale: 300
☒ 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

WEDY	06	0.400kW ERP	132.0M COR AMSL	88.0M HAAT	Lat. 411942	Lon. 725425
Prop	207	0.110kW ERP	21.0M COR AMSL	9.7M HAAT	Lat. 404058	Lon. 732304

```
Distance from TV to FM 82.1788km  Azi 29.3degr  Rev Azi 209.3 degr
Cutoff radius for channel 207 is 196 km
```

The FM horizontal polarization component is 0.110 kW,
and the area of just perceptible interference does not intersect a city of 50k,
so the effective ERP is $(P_v/40+P_h)$ 0.1127kW

The TV6 signal strength at the FM transmit site is 24.372 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