

# TV6 Calculation for Oak Ridge, TN

TV6 Call sign  
W06AY-

Fcc Search  
-1.9 dBu

City  
Lebanon

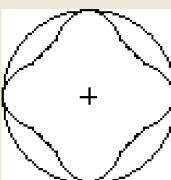
State  
KY

COR AMSL (m)  
365

HAAT(m)  
116

Latitude  
373512

Longitude  
851215



TV ERP (kW)  
0.300

FM Horizontal ERP  
17.0

☒ Outside City Of 50k

47

47

1

TV

FM

Plot Scale  
100

☒ 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

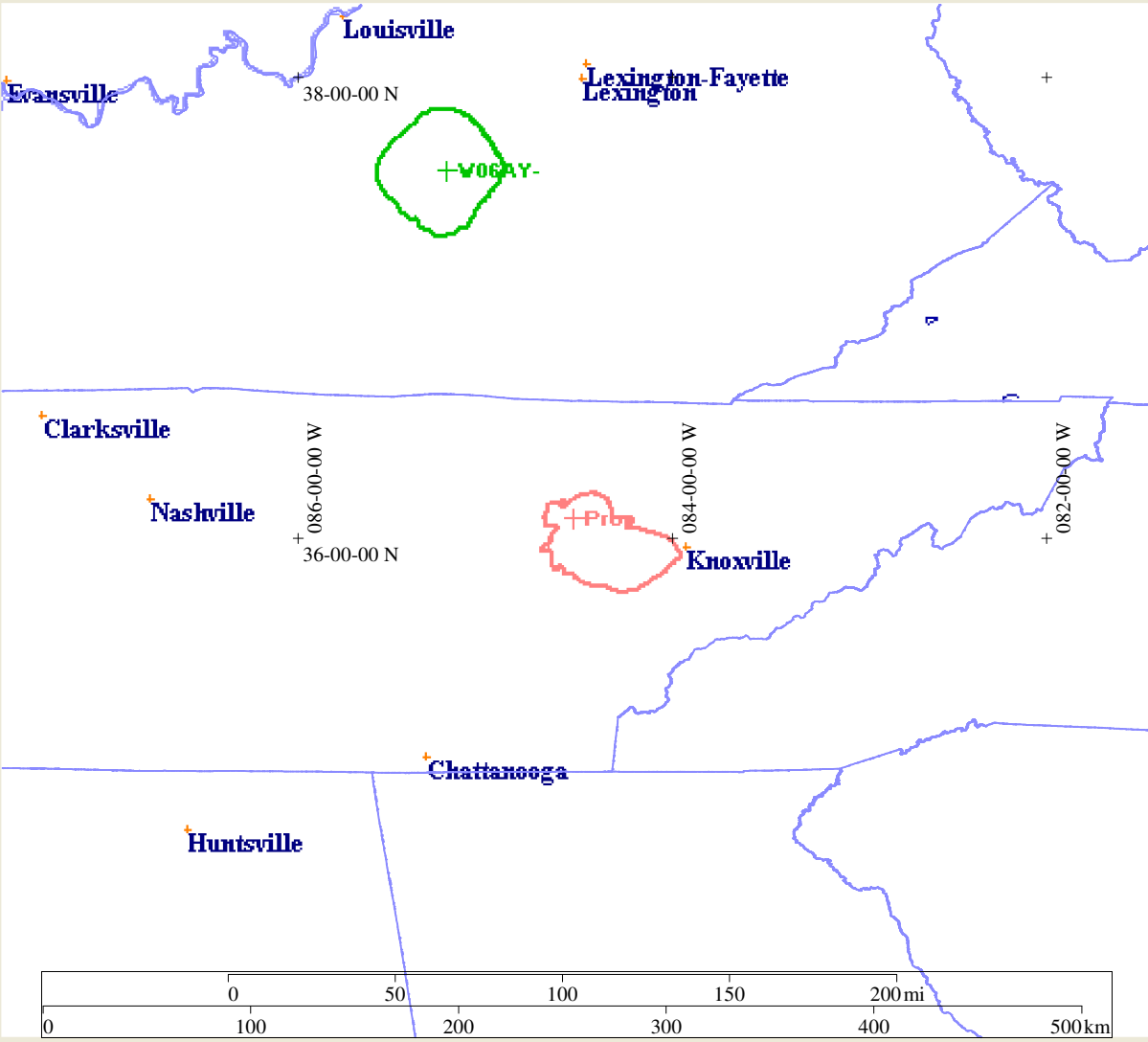
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Channel Six TV Protection Study

W06AY-	06	0.300kW ERP	365.0M COR AMSL	116.0M HAAT	Lat. 373512	Lon. 851215
Prop	204	17.000kW ERP	487.0M COR AMSL	27.0M HAAT	Lat. 360448	Lon. 843100

Distance from TV to FM 178.0909km    Azi 339.9degr    Rev Azi 159.9 degr  
Cutoff radius for channel 204 is 235 km

The FM horizontal polarization component is 17.000 kW,  
and the area of just perceptible interference does not intersect a city of 50k,  
so the effective ERP is (Pv/40+Ph) 17.4250kW

The TV6 signal strength at the FM transmit site is -1.934 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	9.4	56.4	62.4

Population in affected area 0

2000 Block Centroids used