

# TV6 Calculation for Rockport, MA

TV6 Call sign:     Fcc Search:

City:     State:

COR AMSL (m):     HAAT(m):

Latitude:     Longitude:

TV ERP (kW):

FM Horizontal ERP:

Outside City Of 50k

TV  FM

Plot Scale:      DLG     AJPI

Hide Zeros

Plot All Centroids

Plot Inside Centroid Counts

Plot All Centroid Counts

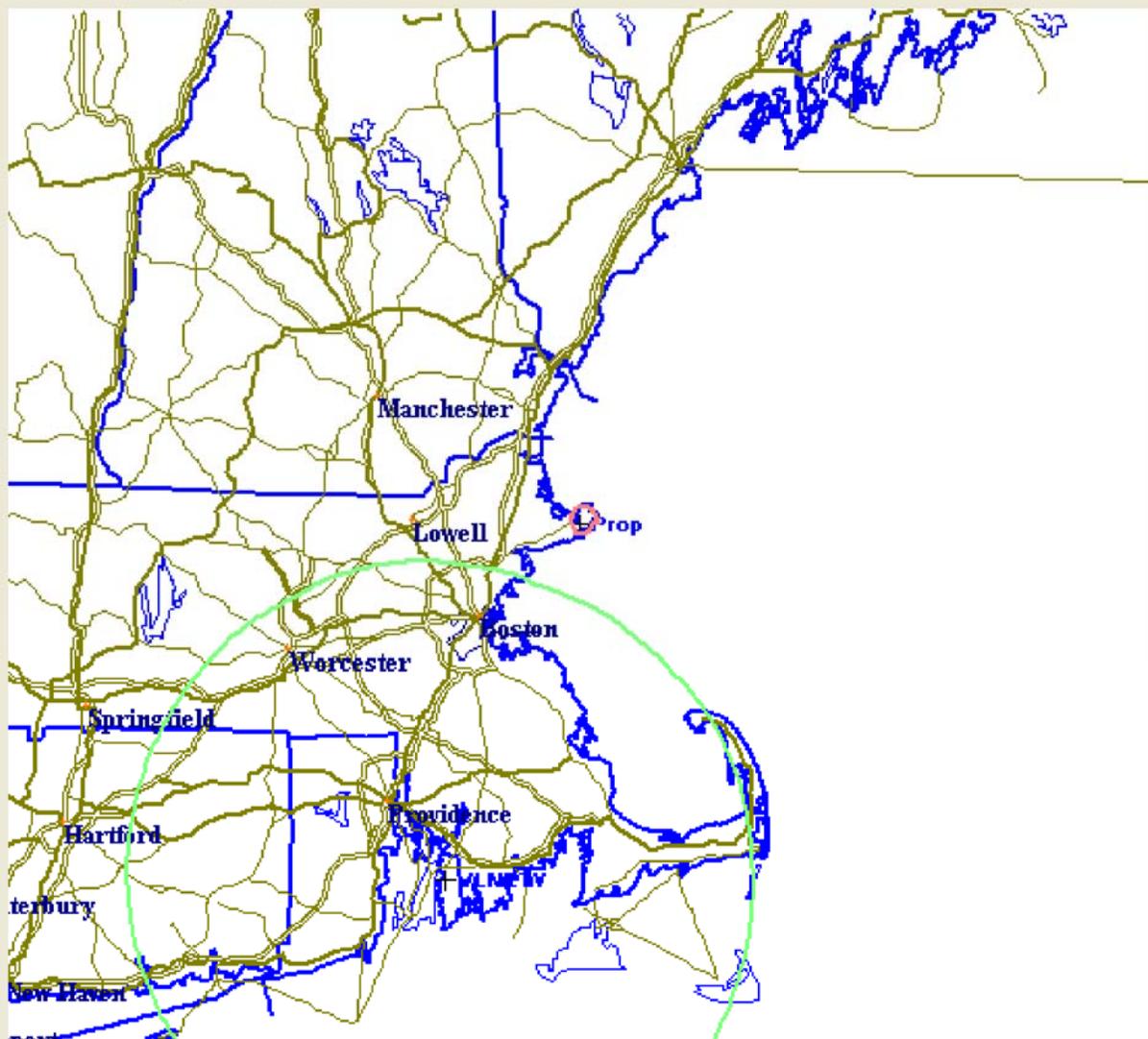
Plot Contours

Print All Centroids to  dBu

Print Centroids

Print TV Contour Table

Comp:



## Channel Six TV Protection Study

WLNETV	06	100.000kW ERP	304.0M COR AMSL	283.0M HAAT	Lat. 413548	Lon. 711124
Prop	218	0.800kW ERP	92.0M COR AMSL	87.0M HAAT	Lat. 423728	Lon. 703915

Distance from TV to FM 122.4599km    Azi 201.2degr    Rev Azi 21.2 degr  
 Cutoff radius for channel 218 is 166 km

The FM horizontal polarization component is 0.800 kW,  
 and the area of just perceptible interference does not intersect a city of 50k,  
 so the effective ERP is  $(P_v/40+P_h)$  0.8200kW

The TV6 signal strength at the FM transmit site is 39.0 dBu  
 This strength is outside the 68 dBu Grade A contour,  
 allowing a 6 dB bonus to be applied to the allowable FM signal  
 to F centroids (centroids in the angles between the FM station and the TV station)

TV Contour	Undesired/Desired Ratio	Total	Directional Total
47	32.5	79.5	85.5

Population in affected area 0