


## TV6 Calculation for Fulton, AL

TV6 Call sign: 119652      Fcc Search: 6.5 dBu

City: Tuscaloosa      State: AL

COR AMSL (m): 340      HAAT(m): 266

Latitude: 330315      Longitude: 873257

 TV ERP (kW): 1.000

FM Horizontal ERP: 2.1

☒ Outside City Of 50k

47    47    1

Plot Scale: 150    ☒ DLG    ☐ AJPI

☒ Hide Zeros    ☒ TIGER

☐ Plot All Centroids

☐ Plot Inside Centroid Counts

☐ Plot All Centroid Counts

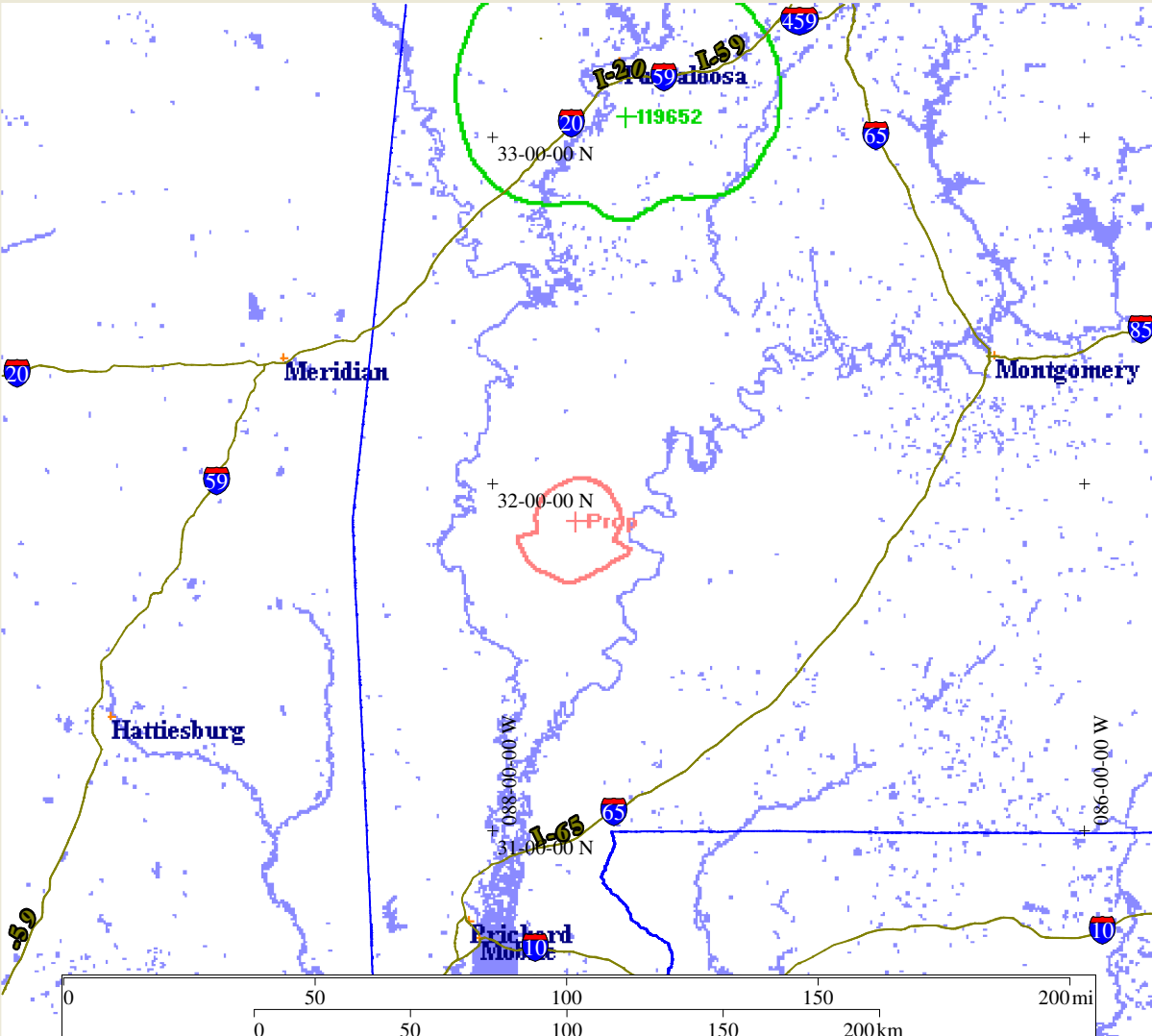
☒ Plot Contours

☐ Print All Centroids to: -3 dBu

☐ Print Centroids

☒ Print TV Contour Table

Comp: Copy F    Copy L    PrintText    Print Form



## Channel Six TV Protection Study

119652	06	1.000kW ERP	340.0M COR AMSL	266.0M HAA	T	Lat.	330315	Lon.	873257
Prop	207	2.100kW ERP	253.0M COR AMSL	166.0M HAA	T	Lat.	315328	Lon.	874245

Distance from TV to FM 129.8837km    Azi    6.8degr    Rev Azi 186.8 degr  
Cutoff radius for channel 207 is 196 km

The FM horizontal polarization component is 2.100 kW,  
and the area of just perceptible interference does not intersect a city of 50k,  
so the effective ERP is  $(P_v/40+P_h)$  2.1525kW

The TV6 signal strength at the FM transmit site is 6.532 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