

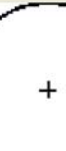
## TV6 Calculation for Calypso, NC

TV6 Call sign: WECT      Fcc Search: 65.2 dBu

City: Wilmington      State: NC

COR AMSL (m): 605      HAAT(m): 588

Latitude: 343443      Longitude: 782613

 TV ERP (kW): 100.000

FM Horizontal ERP: .5

☒ Outside City Of 50k

64   67   1   TV FM

Plot Scale: 3000   ☒ DLG   ☐ AJPI

☒ Hide Zeros

☒ Plot All Centroids

☒ Plot Inside Centroid Counts

☐ Plot All Centroid Counts

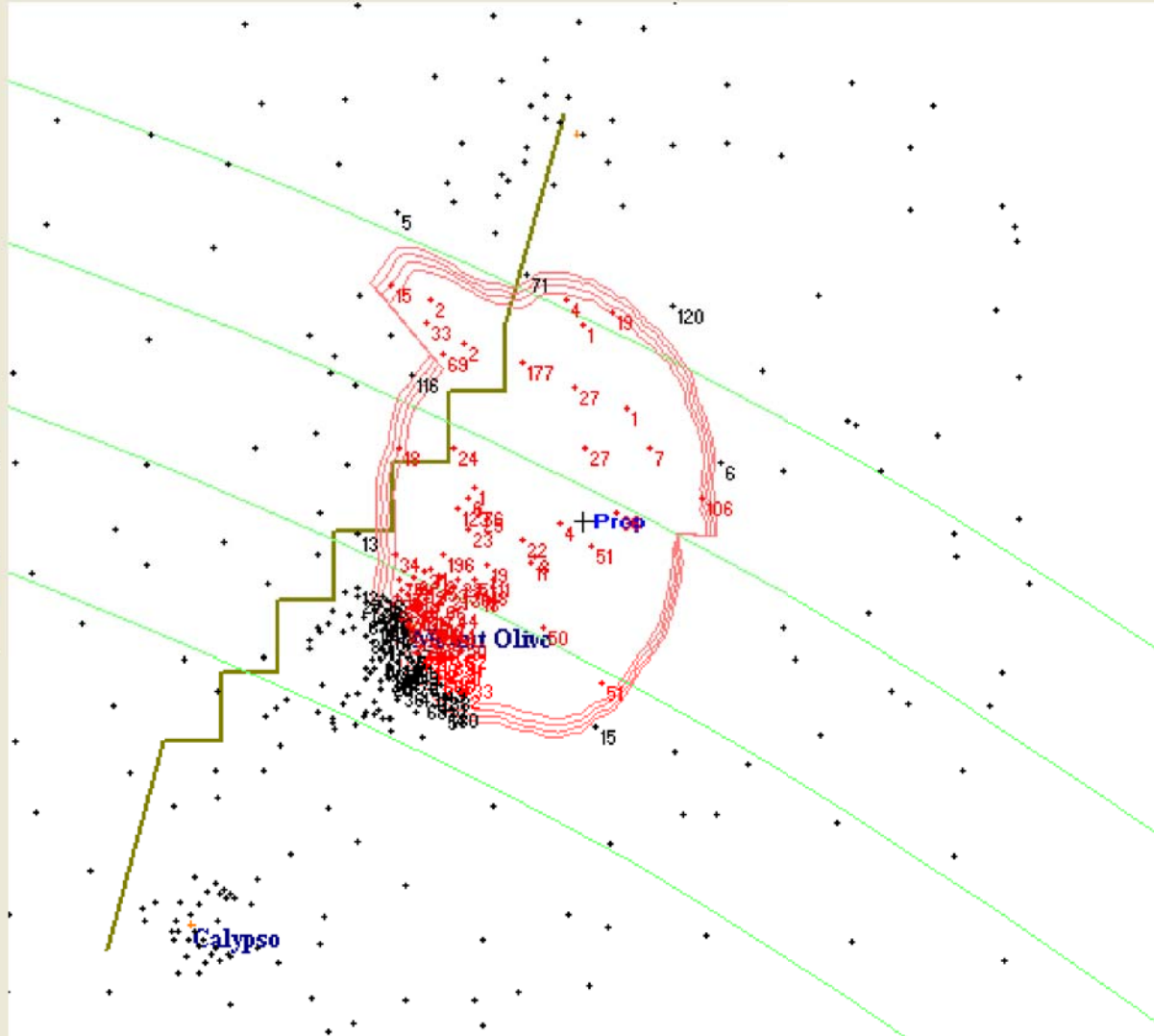
☒ Plot Contours

☐ Print All Centroids to: -3 dBu

☐ Print Centroids

☒ Print TV Contour Table

Comp: Copy F   PrintText   Print Form



## Channel Six TV Protection Study

WECT	06	100.000kW ERP	605.0M COR AMSL	588.0M HAA	Lat. 343443	Lon. 782613
Prop	216	4.752kW ERP	82.0M COR AMSL	42.9M HAA	Lat. 351242	Lon. 780211

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Distance from TV to FM 79.1995km  Azi 207.5degr  Rev Azi 27.5 degr
Cutoff radius for channel 216 is 177 km
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The FM horizontal polarization component is 0.500 kW,  
and the area of just perceptible interference does not intersect a city of 50k,  
so the effective ERP is  $(P_v/40+P_h)$  0.6188kW

The TV6 signal strength at the FM transmit site is 65.2 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
64	9.0	73.0	79.0
65	8.5	73.5	79.5
66	8.0	74.0	80.0
67	7.6	74.6	80.6

Population in affected area	2819
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