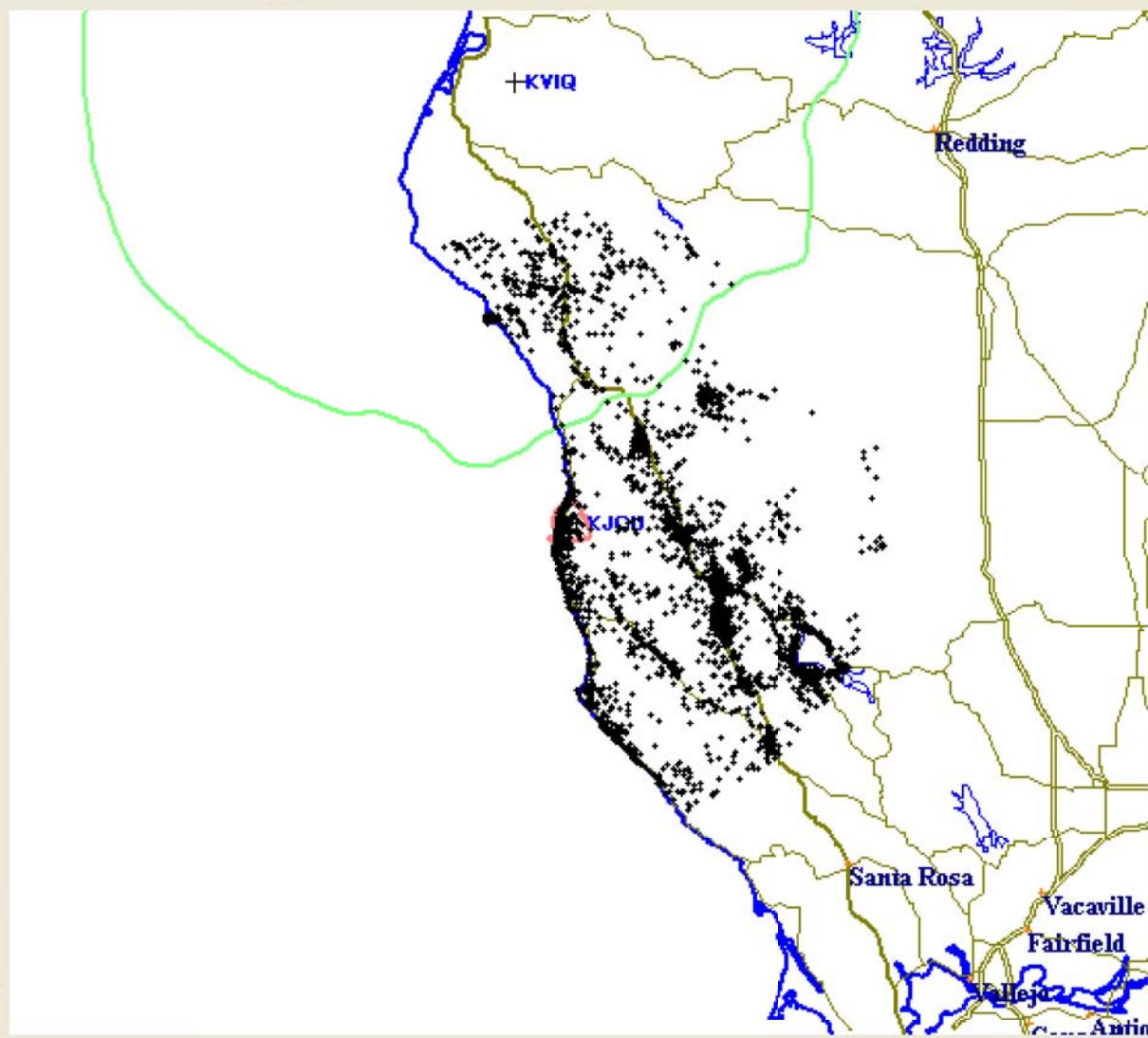


TV6 Calculation for Fort Bragg, CA

TV6 Call sign	KVIQ	Fcc Search
		37.9 dBu
City	Eureka	State
COR AMSL (m)	920	HAAT(m)
Latitude	404336	Longitude
	1235818	
TV ERP (kW)		
100.000		
FM Horizontal ERP		
.130		
<input checked="" type="checkbox"/> Outside City Of 50k		
47	47	1
Plot Scale		TV
150		FM
<input checked="" type="checkbox"/> DLG <input type="checkbox"/> AJPI		
<input checked="" type="checkbox"/> Hide Zeros		
<input checked="" type="checkbox"/> Plot All Centroids		
<input checked="" type="checkbox"/> Plot Inside Centroid Counts		
<input type="checkbox"/> Plot All Centroid Counts		
<input checked="" type="checkbox"/> Plot Contours		
<input type="checkbox"/> Print All Centroids to -3 dBu		
<input type="checkbox"/> Print Centroids		
<input checked="" type="checkbox"/> Print TV Contour Table		
Comp	Copy F	PrintText
Copy I	Print Form	



Channel Six TV Protection Study

KVIQ 06 100.000kW ERP 920.0M COR AMSL 530.0M HAAT Lat. 404336 Lon. 1235818
 KJCU 210 0.130kW ERP 228.0M COR AMSL 106.0M HAAT Lat. 392635 Lon. 1234358

Distance from TV to FM 143.9738km Azi 351.9degr Rev Azi 171.9 degr

Cutoff radius for channel 210 is 196 km

The FM horizontal polarization component is 0.130 kW,
 and the area of just perceptible interference does not intersect a city of 50k,
 so the effective ERP is $(Pv/40+Ph) 0.1332\text{ kW}$

The TV6 signal strength at the FM transmit site is 37.9 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	20.4	67.4	73.4

Population in affected area 0