

TV6 Calculation for Temecula, CA

Fcc Search

24.6 dBu

State

CA

 $H_{\Delta\Delta T}(m)$

0

Longitude

1180342



0.499

FM Horizontal ERP

0.001

☒ Outside City Of 50k

TV

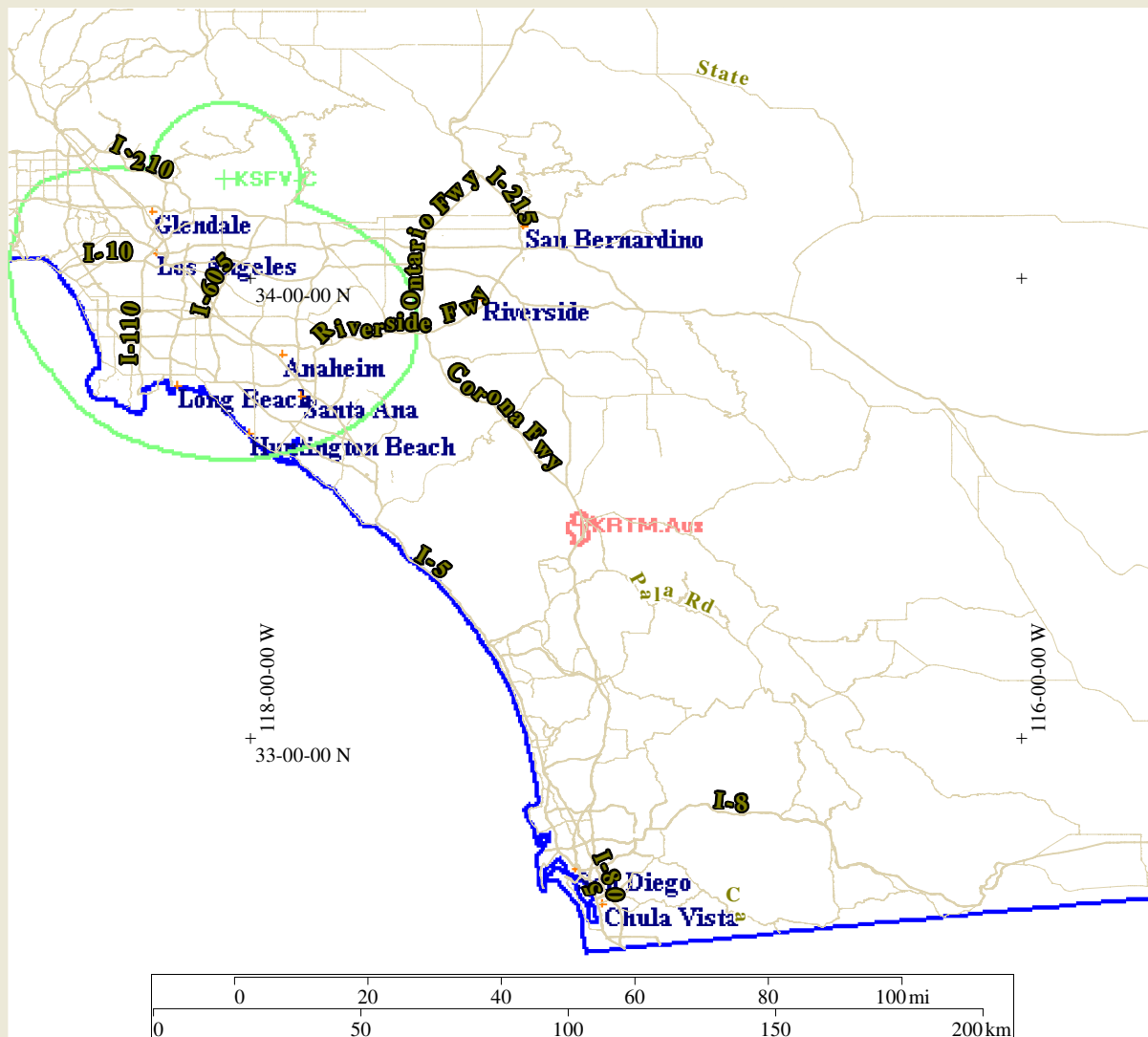
FM

Plot Scale

200

☒☒ Hide Zeros☒ TIGER☐ 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	Copy F Copy I	PrintText	Print Form
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Channel Six TV Protection Study

KSFV-C	06	0.499kW	ERP	791.0M	COR	AMSL	0.0M	HAAT	Lat.	341246	Lon.	1180342
KRTM.A	205	0.001kW	ERP	514.0M	COR	AMSL	138.0M	HAAT	Lat.	332759	Lon.	1170829

Distance from TV to FM 118.7833km Azi 314.2degr Rev Azi 134.2 degr
Cutoff radius for channel 205 is 225 km

The FM horizontal polarization component is 0.001 kW,
and the area of just perceptible interference does not intersect a city of 50k,
so the effective ERP is $(P_v/40+P_h)$ 0.0010kW

The TV6 signal strength at the FM transmit site is 24.646 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	12.1	59.0	65.0	

Population in affected area	0
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2000 Block Centroids used