

Station KDRT-LP • as Channel 239L100 • Davis, California

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained to determine the contour protection conditions for Low Power FM Station KDRT-LP, Channel 268L100, Davis, California, should that station be relocated to Channel 239L100 (95.7 MHz), as suggested by FCC staff. Operation at 100 watts effective radiated power with a center-of-radiation height of 14.3 meters AGL, 27.4 meters AMSL, and 15.2 meters HAAT, at the existing KDRT-LP site, has been assumed.

KUIC, Channel 237B1, Vacaville, Allocation Conditions

KDRT-LP as Channel 239L100 would be 36.4 km from KUIC, Channel 237B1, Vacaville. The required spacing is 46 km, so a 9.6-km short-spacing would exist. As shown by at page 3, KDRT-LP as Channel 239 would be inside the KUIC F(50,50) 57 dBu protected contour. At the KDRT-LP site the predicted KUIC signal strength is 63.1 dBu. Also as shown at page 3, there is no terrain obstruction between the KUIC transmitter site at Mt. Vaca and Davis. Adding 40 dB to this signal strength gives a KDRT-LP as Channel 239 interfering signal level of 103.1 dBu. As shown by the larger smaller scale maps at pages 4 and 5, the KDRT-LP as Channel 239 F(50,10) 103.1 dBu interfering contour would extend 0.49 km around the KDRT-LP site. The population within this contour is 1,870 persons (2000 Census), or 0.20% of the 951,118 persons (2000 Census) inside the KUIC protected contour. Thus, the KDRT-LP as Channel 239 predicted interference to KUIC is non-zero.

KYMX, Channel 241B, Sacramento, Allocation Conditions

KDRT-LP as Channel 239L100 would be 18.2 km from KYMX, Channel 241B, Sacramento. The required spacing is 67 km, so a 48.8-km short-spacing would exist. As shown at page 6, KDRT-LP as Channel 239 would be inside the KYMX F(50,50) 54 dBu protected contour. At the KDRT-LP site, the predicted KYMX signal strength is 80.5 dBu. Also as shown at page 6, there is no terrain obstruction between the KYMX transmitting antenna and Davis. Adding 40 dB to this signal strength gives a KDRT-LP as Channel 239 interfering signal level of 120.5 dBu. As shown by the larger scale map at page 7, the KDRT-LP as Channel 239 F(50,10) 120.5 dBu interfering contour would extend 0.066 km around the KDRT-LP site. There is zero population within this contour.

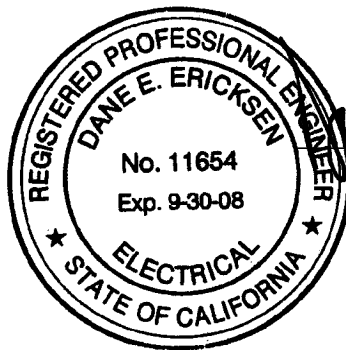


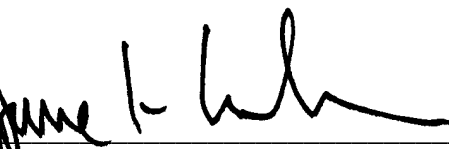
List of Figures

In carrying out these engineering studies, the following attached figures were prepared under my direct supervision:

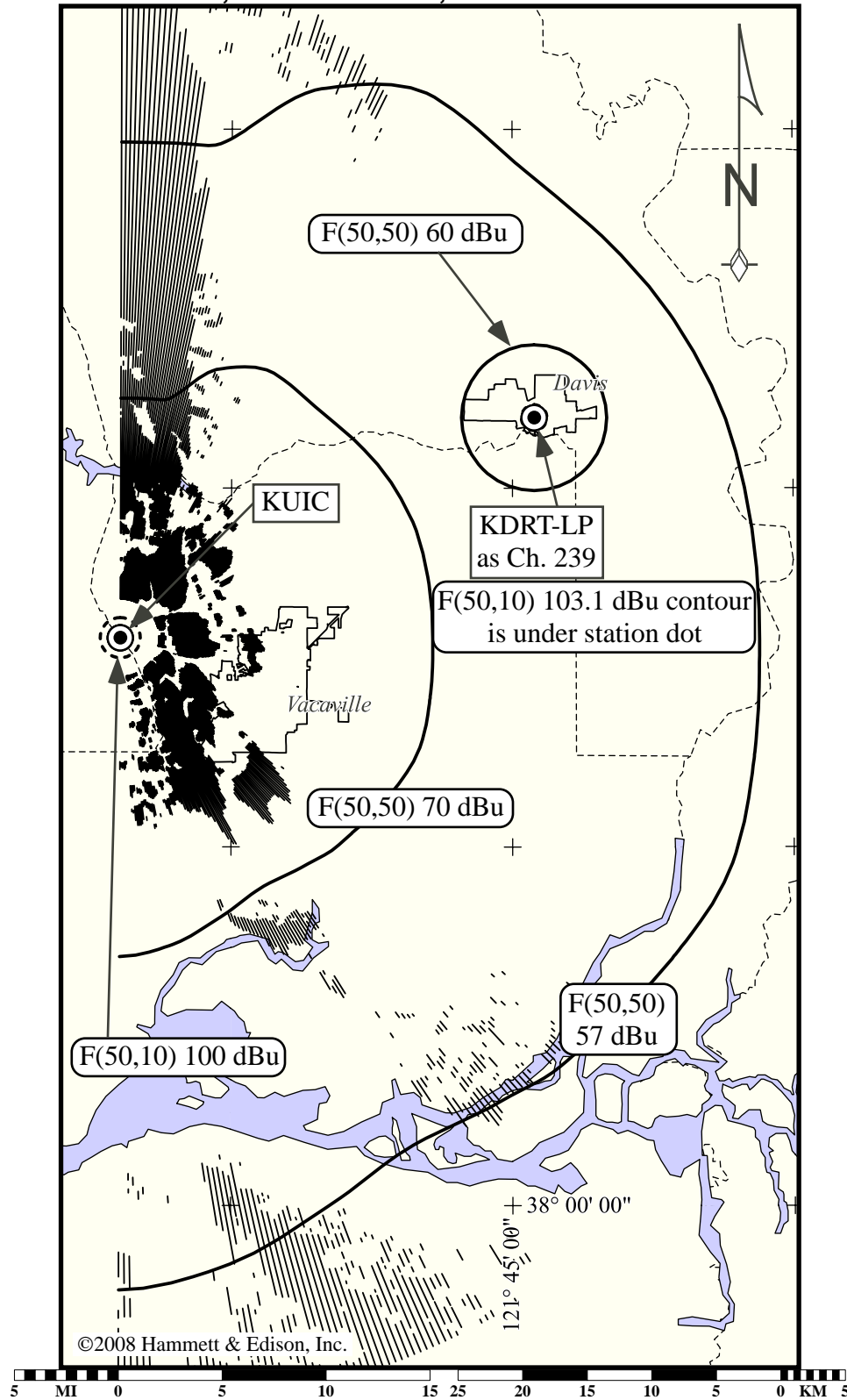
1. Maps showing the KUIC/KDRT-LP as Channel 239 contours
2. Maps showing the KYMX/KDRT-LP as Channel 239 contours.

April 22, 2008




Dane E. Ericksen, P.E.

KUIC, Channel 237B1, Vacaville Contours

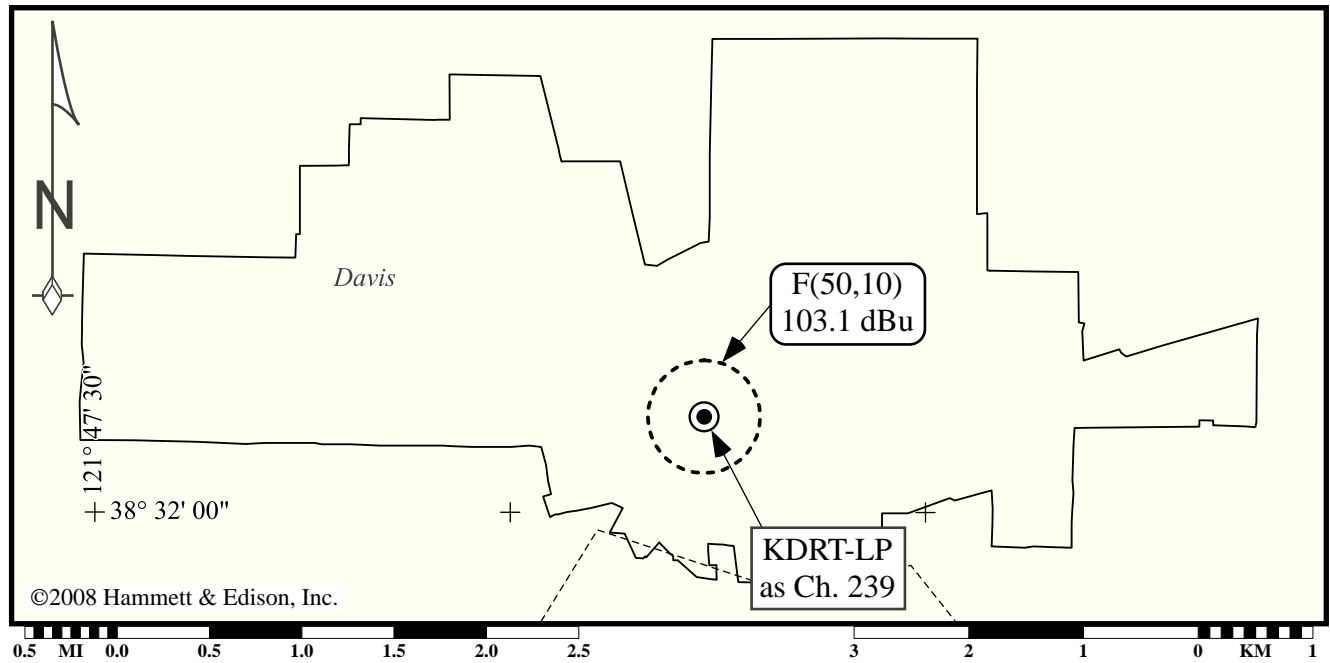


Lambert conformal conic map projection. Shadowing based upon 3-second USGS digitized terrain data and 4/3 earth radius, 9.1 m AGL RX height. Map data taken from Sectional Aeronautical Charts, published by the National Ocean Survey. Geographic coordinate marks shown at 15-minute increments. City limits shown taken from U.S. Census Bureau TIGER/Line 2000 data.



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KDRT-LP 103.1 dBu
Interfering Contour
vs. KUIC Ch. 237B1



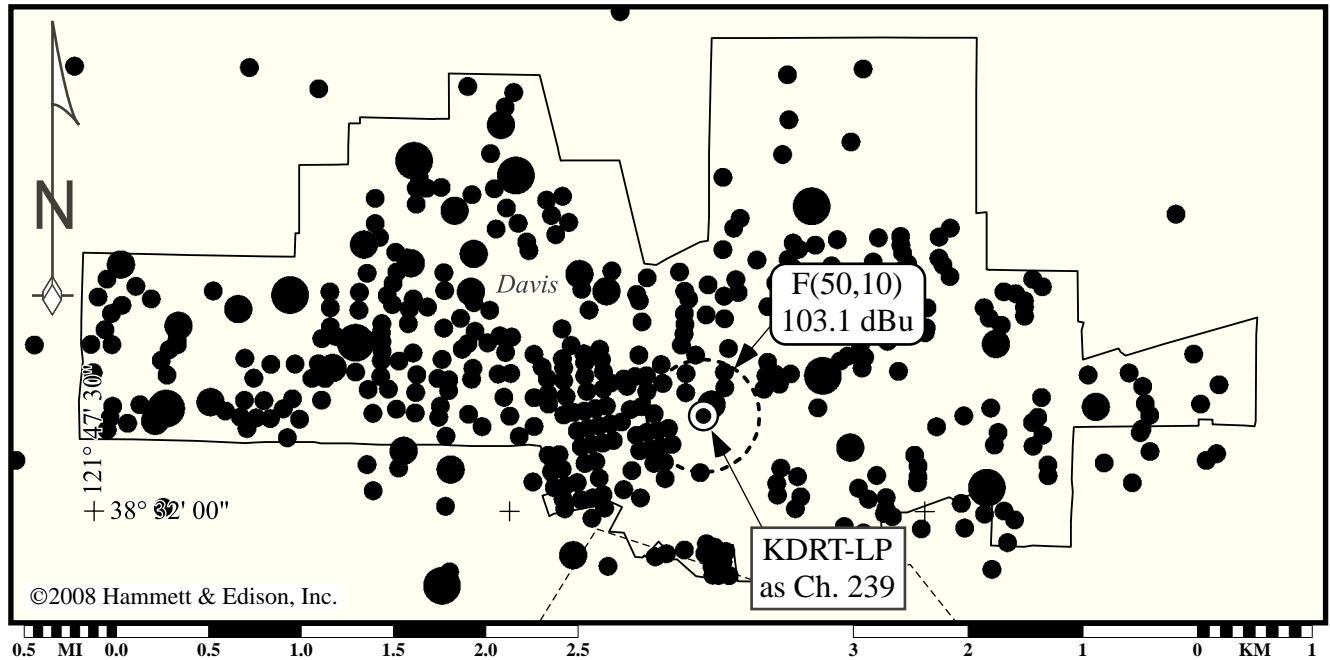
Polyconic map projection. Map data taken from Sectional Aeronautical Charts, published by the National Ocean Survey. Geographic coordinate marks shown at 2.5-minute increments. City limits shown taken from U.S. Census Bureau TIGER/Line 2000 data.



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KDRT-LP 103.1 dBu
Interfering Contour
vs. KUIC Ch. 237B1



Dots are U.S. 2000 Census population centroids.

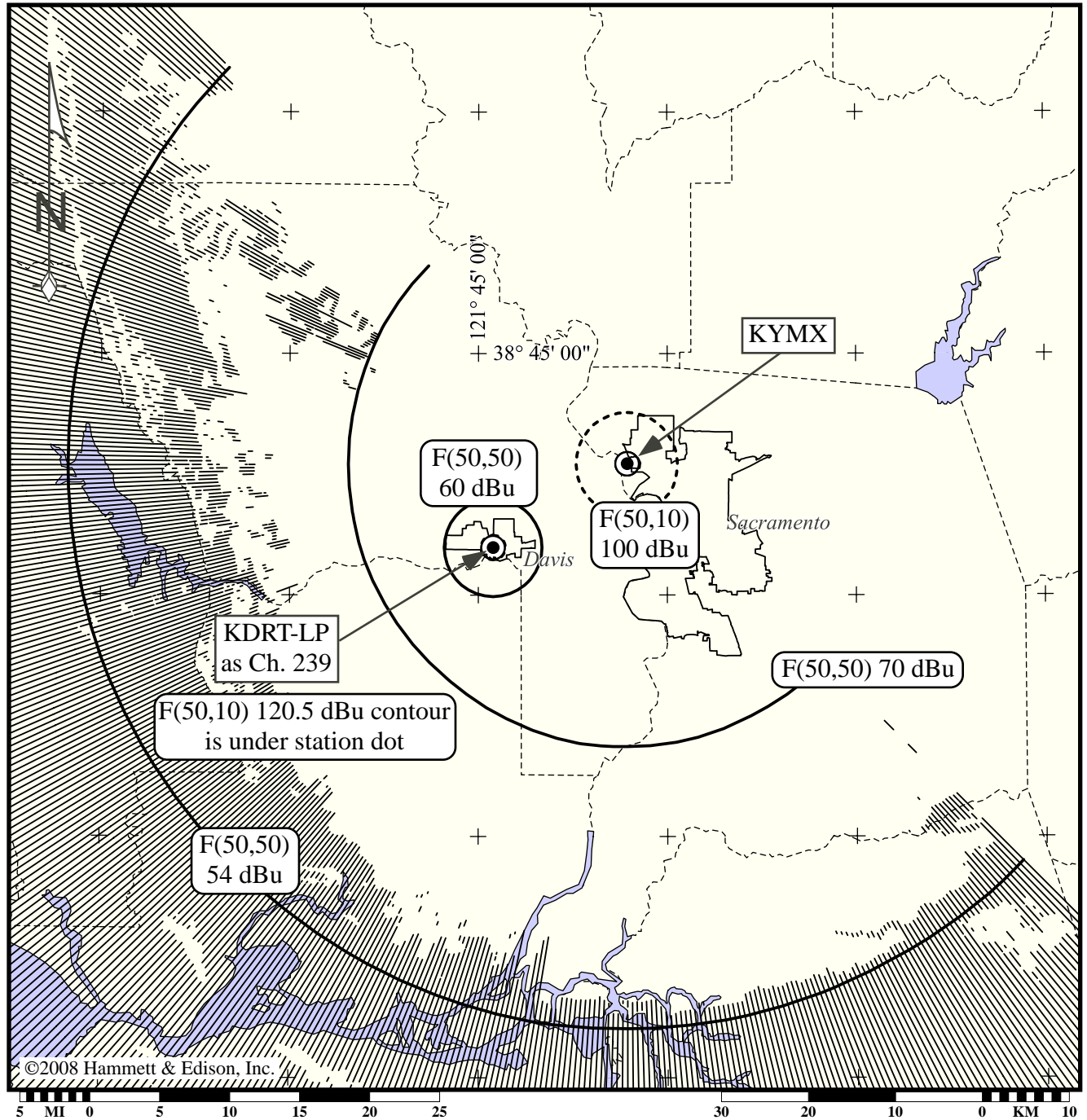
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KYMX, Channel 241B, Vacaville Contours

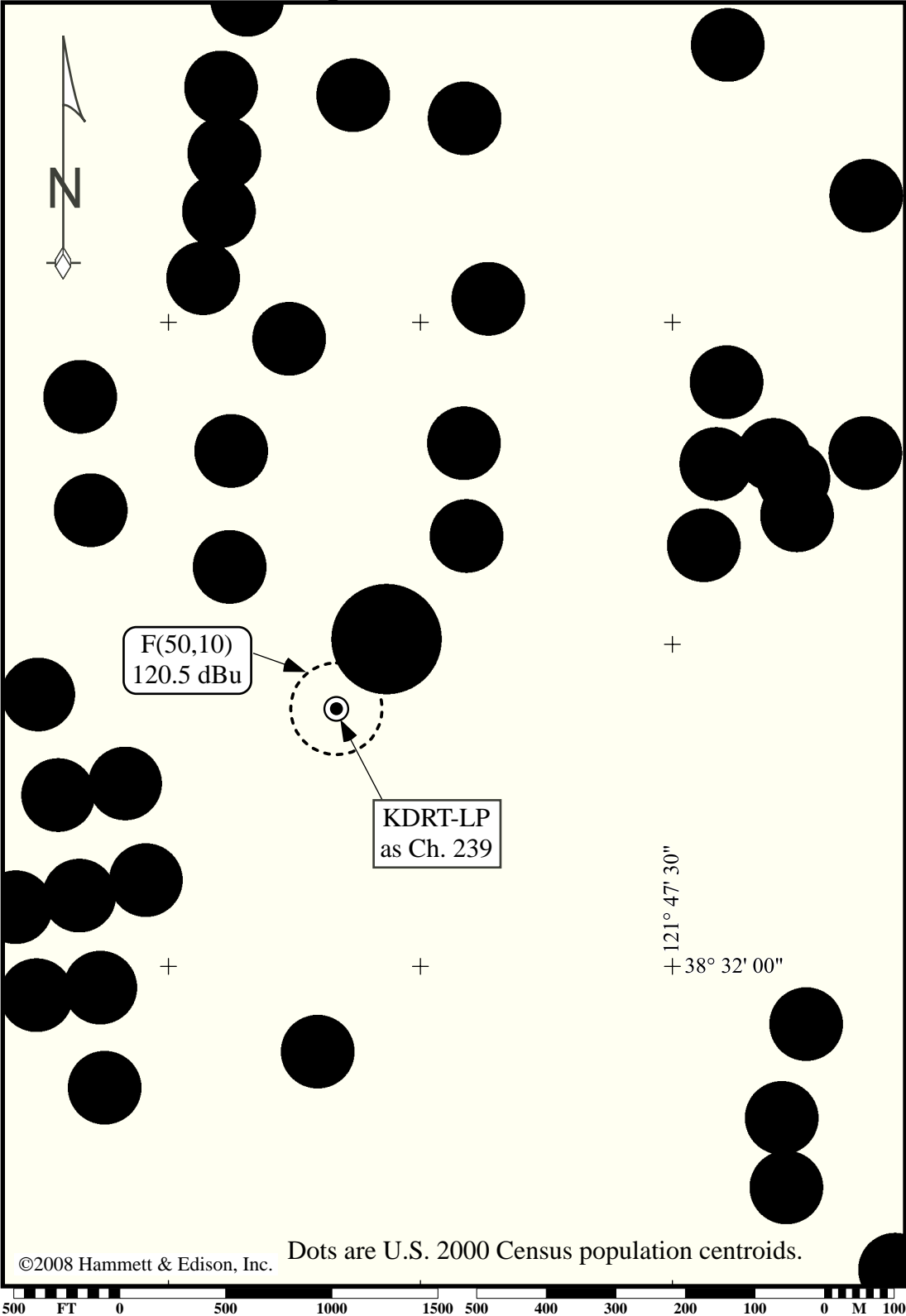


Lambert conformal conic map projection. Shadowing based upon 3-second USGS digitized terrain data and 4/3 earth radius, 9.1 m AGL RX height. Map data taken from Sectional Aeronautical Charts, published by the National Ocean Survey. Geographic coordinate marks shown at 15-minute increments. City limits shown taken from U.S. Census Bureau TIGER/Line 2000 data.



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KDRT-LP 120.5 dBu
Interfering Contour vs. KYMX Ch. 241B



Azimuthal equidistant map projection. Map data taken from Sectional Aeronautical Charts, published by the National Ocean Survey. Geographic coordinate marks shown at 15-second increments. City limits shown taken from U.S. Census Bureau TIGER/Line 2000 data.

