

WHAM CRITICAL HOURS ANALYSIS

Educational Media Foundation
Radio Station WPLX
Germantown, TN
1180 kHz; 10 kW, DA-D

<u>WHAM Contour Point</u>	<u>Contour Point Coordinates</u>	<u>Distance from Proposed</u>	<u>Bearing from Proposed</u>	$\frac{E_{\max}(1000) \times K' (1000) = \text{Max}(1000)}{E_{\max}(1600) \times K' (1600) = \text{Max}(1600)}$	<u>Maximum Allowed Proposed</u>	<u>Prop. Theta Angle</u>	<u>Proposed mv/m/km @ Theta</u>
CH-A	N 43-16-20 W 79-05-30	1300.4 km 808.1 mi	41.3°T	750 mv/m/mi x .7 = 525.0 mv/m 265 mv/m/mi x .3 = 79.5 mv/m	972.8 mv/m/km 604.5 mv/m/km	0.0°	212.94
						3.4°	206.42
						7.5°	182.14
CH-B	N 42-04-30 W 80-19-00	1137.1 km 706.2 mi	42.9°T	625 mv/m/mi x .7 = 437.5 mv/m 215 mv/m/mi x .3 = 64.5 mv/m	807.9 mv/m/km 502.0 mv/m/km	0.0°	196.90
						4.7°	185.94
						9.3°	156.93
CH-C	N 41-30-00 W 79-00-00	1183.9 km 735.7 mi	48.7°T	610 mv/m/km x .7 = 427.0 mv/m 212 mv/m/mi x .3 = 63.6 mv/m	789.5 mv/m/km 490.6 mv/m/mi	0.0°	218.66
						4.3°	216.24
						8.7°	211.55
CH-D	N 41-12-45 W 78-00-00	1236.9 km 768.7 mi	53.1°T	628 mv/m/mi x .7 = 439.6 mv/m 222 mv/m/mi x .3 = 66.6 mv/m	814.6 mv/m/km 506.2 mv/m/mi	0.0°	319.43
						3.8°	319.63
						8.1°	321.40
CH-E	N 41-17-45 W 77-00-00	1314.2 km 816.7 mi	53.6°T	670 mv/m/mi x .7 = 469.0 mv/m 245 mv/m/mi x .3 = 73.5 mv/m	873.1 mv/m/km 542.5 mv/m/mi	0.0°	333.78
						3.3°	333.99
						7.3°	335.47

FIGURE 11A AMENDED

Proposed WPLX 1180 kHz .005 mv to WHAM 0.1 mv Contour

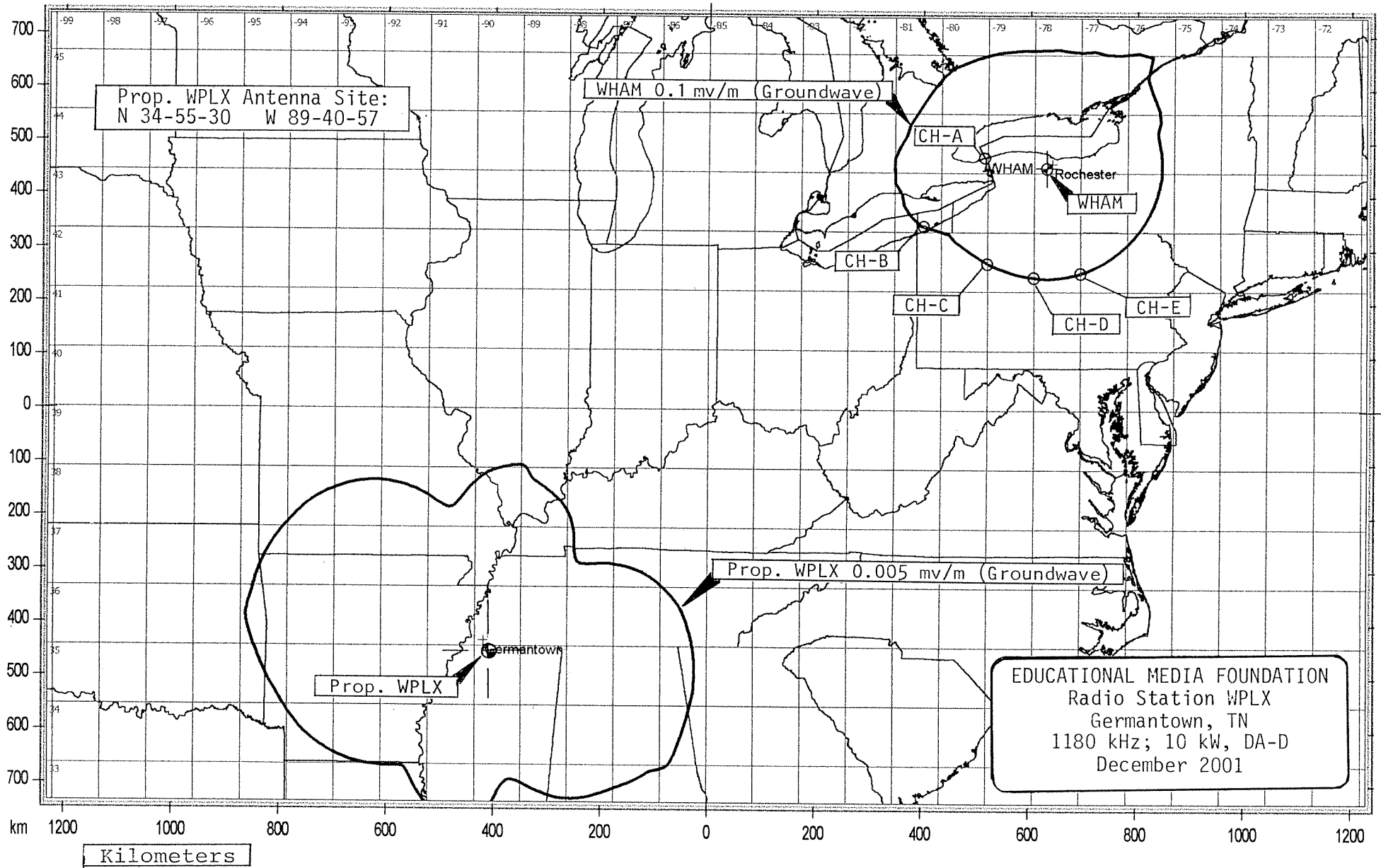


FIGURE 11B AMENDED