

# Channel-Six TV Protection Study

WRGB CP 06 1C Dom 4.640 kW 396 M HAAT THN  
Schenectady NY 653.1 M COR AMSL  
Lat= 42 37 31.0, Lng= 74 00 38.0  
Freedom Broadcasting Of New as De Dios, De Mexico, In BPCDT20080307AAK  
Fac ID# 73942  
Dist.=170.16 km, Azi=204.1°, Rev Azi=23.5°

Direct line HAAT Grade B, 47 dBu= 88.77 km & Grade A= 39.81 km

Distance from reference to Grade B = 81.4 km

Cutoff Dist from Full Service or Class CA= 196

Maximum Co-located power= 26.3 kW

WRGB Signal Contour at Reference location = 20.9 dBu

CH. 211, U/D ratio = 26.3 dB, Maximum FM signal = 73.3 dBu , 6 dB credit added

## TV/FM D to U values

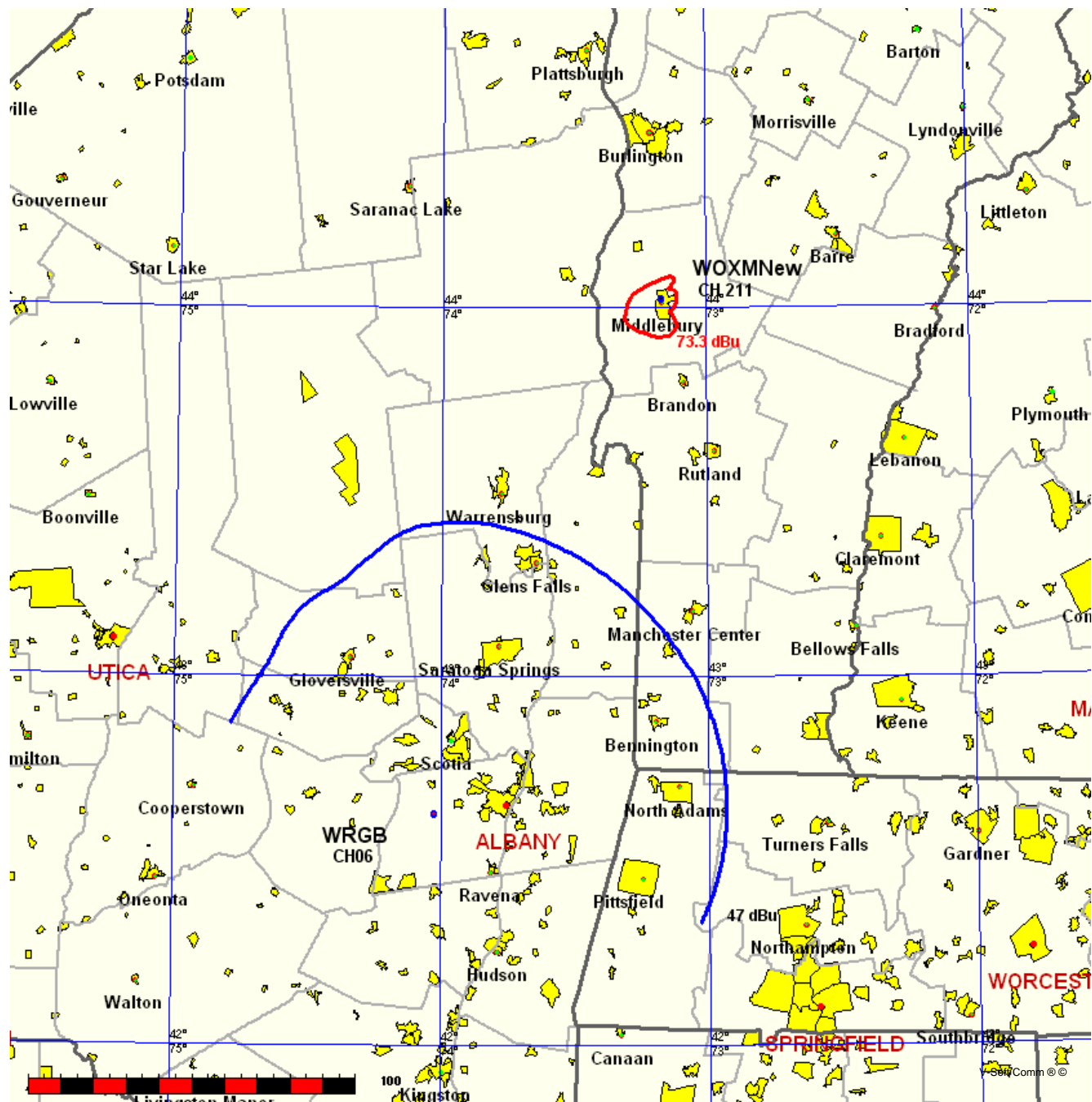
47.0	73.3	55.0	72.3	63.0	73.9	71.0	78.7	79.0	85.0	87.0	91.6
48.0	73.0	56.0	72.4	64.0	74.4	72.0	79.5	80.0	85.8	88.0	92.4
49.0	72.6	57.0	72.5	65.0	74.8	73.0	80.2	81.0	86.6	89.0	93.3
50.0	72.3	58.0	72.6	66.0	75.4	74.0	81.0	82.0	87.4	90.0	94.2
51.0	72.2	59.0	72.8	67.0	76.0	75.0	81.8	83.0	88.2	91.0	94.2
52.0	72.2	60.0	73.0	68.0	76.6	76.0	82.6	84.0	89.0	92.0	94.2
53.0	72.1	61.0	73.3	69.0	77.3	77.0	83.4	85.0	89.9	93.0	94.2
54.0	72.2	62.0	73.5	70.0	78.0	78.0	84.2	86.0	90.7	94.0	94.2

Vermont Public Radio  
WOXM v. WRGB (TV6)

FMCommander Single Allocation Study - 12-17-2009 - FCC NGDC 30 Sec  
WOXMNew v. WRGB.CP

WOXMNew CH 211 A DA  
Lat= 44 01 34.0, Lng= 73 09 44.0  
1.23 kW 95.3 M HAAT, 288.3 M COR  
Intef. = 73.3 dBu Prot. = 47 dBu

WRGB CH 06 1C BPCDT20080307AAK  
Lat= 42 37 31.0, Lng= 74 00 38.0  
4.64 kW 396 M HAAT, 653.1 M COR



12-17-2009 FCC NGDC 30 Sec Terrain Data

WRGB BPCDT20080307AAK

Channel = 06 1C

Max ERP = 4.64 kW

RCAMSL = 653.1 M

N. Lat. 42 37 31.0

W. Lng. 74 00 38.0

Protected

47 dBu

WOXMNew

Channel = 211A

Max ERP = 1.23 kW

RCAMSL = 288.3 M

N. Lat. 44 01 34.0

W. Lng. 73 09 44.0

Interfering

73.3 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
323.0	004.6400	0311.7	072.5	229.3	001.2300	0203.9	148.4	23.27	
324.0	004.6400	0316.6	072.8	229.4	001.2300	0204.2	147.3	23.48	
325.0	004.6400	0322.0	073.2	229.5	001.2300	0204.3	145.9	23.71	
326.0	004.6400	0327.0	073.6	229.6	001.2300	0204.5	144.6	23.95	
327.0	004.6400	0330.8	073.9	229.6	001.2300	0204.5	143.3	24.20	
328.0	004.6400	0333.6	074.1	229.6	001.2300	0204.5	142.0	24.44	
329.0	004.6400	0335.9	074.3	229.6	001.2300	0204.5	140.7	24.69	
330.0	004.6400	0338.2	074.4	229.6	001.2300	0204.5	139.4	24.94	
331.0	004.6400	0341.0	074.6	229.5	001.2300	0204.4	138.1	25.19	
332.0	004.6400	0343.3	074.8	229.5	001.2300	0204.3	136.8	25.43	
333.0	004.6400	0344.1	074.9	229.4	001.2300	0204.2	135.5	25.68	
334.0	004.6400	0344.0	074.9	229.2	001.2300	0203.9	134.2	25.92	
335.0	004.6400	0344.0	074.9	229.1	001.2300	0203.6	133.0	26.15	
336.0	004.6400	0344.8	074.9	228.9	001.2300	0203.3	131.7	26.39	
337.0	004.6400	0347.1	075.1	228.8	001.2300	0203.0	130.4	26.64	
338.0	004.6400	0351.2	075.4	228.7	001.2300	0202.9	129.1	26.90	
339.0	004.6400	0356.8	075.8	228.7	001.2300	0202.8	127.7	27.17	
340.0	004.6400	0363.5	076.3	228.7	001.2300	0202.8	126.3	27.44	
341.0	004.6400	0371.0	076.8	228.7	001.2300	0202.8	124.8	27.73	
342.0	004.6400	0379.1	077.4	228.7	001.2300	0202.8	123.3	28.02	
343.0	004.6400	0387.3	078.0	228.7	001.2300	0202.7	121.9	28.32	
344.0	004.6400	0395.6	078.6	228.7	001.2300	0202.7	120.4	28.62	
345.0	004.6400	0403.6	079.2	228.6	001.2300	0202.6	118.9	28.92	
346.0	004.6400	0411.0	079.8	228.5	001.2300	0202.4	117.4	29.22	
347.0	004.6400	0419.0	080.4	228.5	001.2300	0202.3	115.9	29.53	
348.0	004.6400	0428.3	081.1	228.4	001.2300	0202.1	114.3	29.86	
349.0	004.6400	0439.0	081.9	228.4	001.2300	0202.1	112.7	30.20	
350.0	004.6400	0450.0	082.7	228.4	001.2300	0202.0	111.0	30.56	
351.0	004.6400	0459.6	083.4	228.3	001.2300	0201.7	109.4	30.92	
352.0	004.6400	0469.3	084.0	228.1	001.2300	0201.4	107.8	31.29	
353.0	004.6400	0478.6	084.6	227.9	001.2300	0200.9	106.3	31.66	
354.0	004.6400	0487.9	085.2	227.7	001.2300	0200.2	104.7	32.04	
355.0	004.6400	0496.9	085.8	227.4	001.2300	0199.4	103.2	32.42	
356.0	004.6400	0503.2	086.2	227.1	001.2300	0198.1	101.8	32.76	
357.0	004.6400	0508.5	086.5	226.7	001.2300	0196.6	100.4	33.08	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
358.0	004.6400	0513.2	086.7	226.2	001.2300	0194.9	099.1	33.39
359.0	004.6400	0516.9	087.0	225.7	001.2300	0193.1	097.9	33.69
000.0	004.6400	0520.6	087.2	225.2	001.2300	0191.4	096.6	33.98
001.0	004.6400	0524.5	087.4	224.6	001.2300	0190.0	095.4	34.29
002.0	004.6400	0528.6	087.7	224.0	001.2300	0189.0	094.2	34.60
003.0	004.6400	0531.7	087.8	223.4	001.2300	0188.3	093.1	34.92
004.0	004.6400	0533.7	087.9	222.7	001.2300	0187.7	092.0	35.21
005.0	004.6400	0535.9	088.1	221.9	001.2300	0187.0	091.0	35.49
006.0	004.6400	0538.6	088.2	221.2	001.2300	0186.2	090.0	35.77
007.0	004.6400	0541.5	088.4	220.5	001.2300	0185.0	089.0	36.03
008.0	004.6400	0543.8	088.5	219.6	001.2300	0183.9	088.0	36.27
009.0	004.6400	0545.6	088.6	218.8	001.2300	0183.3	087.2	36.51
010.0	004.6400	0547.1	088.7	217.9	001.2300	0183.7	086.4	36.78
011.0	004.6400	0548.3	088.8	217.0	001.2300	0184.3	085.6	37.04
012.0	004.6400	0549.0	088.8	216.1	001.2300	0183.6	084.9	37.22
013.0	004.6400	0549.6	088.8	215.1	001.2300	0181.7	084.3	37.34
014.0	004.6400	0549.7	088.8	214.1	001.2300	0179.7	083.7	37.44
015.0	004.6400	0549.5	088.8	213.1	001.2300	0178.6	083.3	37.54
016.0	004.6400	0549.0	088.8	212.1	001.2300	0177.9	082.8	37.65
017.0	004.6400	0549.0	088.8	211.0	001.2300	0177.4	082.4	37.75
018.0	004.6400	0549.4	088.8	210.0	001.2300	0176.9	082.1	37.84
019.0	004.6400	0549.7	088.8	208.9	001.2300	0175.6	081.8	37.88
020.0	004.6400	0549.7	088.8	207.9	001.2300	0173.1	081.5	37.85
021.0	004.6400	0549.5	088.8	206.8	001.2300	0170.4	081.4	37.79
022.0	004.6400	0549.1	088.8	205.7	001.2300	0167.9	081.3	37.72
023.0	004.6400	0548.6	088.8	204.6	001.2300	0165.6	081.2	37.63
024.0	004.6400	0548.1	088.8	203.5	001.2300	0163.7	081.3	37.54
025.0	004.6400	0547.9	088.7	202.4	001.2300	0162.2	081.3	37.46
026.0	004.6400	0548.1	088.8	201.3	001.2300	0162.1	081.4	37.43
027.0	004.6400	0548.5	088.8	200.2	001.2300	0163.8	081.6	37.46
028.0	004.6400	0548.8	088.8	199.1	001.2300	0166.2	081.8	37.49
029.0	004.6400	0548.7	088.8	198.1	001.2300	0167.9	082.0	37.48
030.0	004.6400	0548.3	088.8	197.0	001.2300	0168.4	082.4	37.40
031.0	004.6400	0547.9	088.7	196.0	001.2300	0168.4	082.8	37.27
032.0	004.6400	0548.0	088.8	194.9	001.2300	0168.5	083.2	37.14
033.0	004.6400	0548.8	088.8	193.9	001.2300	0168.6	083.7	37.01
034.0	004.6400	0549.8	088.8	192.9	001.2300	0168.8	084.1	36.86
035.0	004.6400	0550.5	088.9	191.9	001.2300	0169.0	084.7	36.70
036.0	004.6400	0551.0	088.9	191.0	001.2300	0169.3	085.3	36.53
037.0	004.6400	0551.5	088.9	190.0	001.2300	0169.6	086.0	36.34
038.0	004.6400	0552.4	089.0	189.1	001.2300	0170.0	086.7	36.14
039.0	004.6400	0553.4	089.0	188.2	001.2300	0170.5	087.4	35.94
040.0	004.6400	0554.4	089.1	187.3	001.2300	0171.0	088.2	35.72
041.0	004.6400	0554.9	089.1	186.5	001.2300	0171.5	089.0	35.49
042.0	004.6400	0555.3	089.1	185.7	001.2300	0171.9	089.9	35.24
043.0	004.6400	0555.2	089.1	184.9	001.2300	0172.2	090.8	34.97
044.0	004.6400	0554.9	089.1	184.1	001.2300	0172.4	091.8	34.68
045.0	004.6400	0554.1	089.1	183.4	001.2300	0172.3	092.9	34.37
046.0	004.6400	0553.5	089.0	182.7	001.2300	0172.1	094.0	34.05
047.0	004.6400	0553.2	089.0	182.1	001.2300	0171.8	095.1	33.73
048.0	004.6400	0553.4	089.0	181.4	001.2300	0171.5	096.2	33.40

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
049.0	004.6400	0553.9	089.1	180.8	001.2300	0171.3	097.3	33.08
050.0	004.6400	0554.5	089.1	180.2	001.2300	0171.0	098.4	32.75
051.0	004.6400	0555.1	089.1	179.6	001.2300	0170.8	099.6	32.42
052.0	004.6400	0555.5	089.1	179.0	001.2300	0170.6	100.8	32.09
053.0	004.6400	0555.9	089.2	178.5	001.2300	0170.3	102.1	31.76
054.0	004.6400	0556.3	089.2	178.0	001.2300	0169.8	103.4	31.42
055.0	004.6400	0556.8	089.2	177.5	001.2300	0169.3	104.6	31.09
056.0	004.6400	0557.4	089.2	177.0	001.2300	0168.8	106.0	30.76
057.0	004.6400	0558.0	089.3	176.6	001.2300	0168.3	107.3	30.44
058.0	004.6400	0558.9	089.3	176.2	001.2300	0167.9	108.6	30.12
059.0	004.6400	0560.2	089.4	175.8	001.2300	0167.5	110.0	29.82
060.0	004.6400	0561.9	089.4	175.4	001.2300	0167.4	111.3	29.53
061.0	004.6400	0563.8	089.5	175.0	001.2300	0167.2	112.7	29.24
062.0	004.6400	0565.6	089.6	174.7	001.2300	0166.9	114.1	28.95
063.0	004.6400	0567.3	089.7	174.3	001.2300	0166.4	115.5	28.66
064.0	004.6400	0568.4	089.7	174.0	001.2300	0166.0	117.0	28.36
065.0	004.6400	0568.9	089.8	173.8	001.2300	0165.6	118.5	28.06
066.0	004.6400	0568.9	089.8	173.6	001.2300	0165.3	120.0	27.77
067.0	004.6400	0568.5	089.8	173.3	001.2300	0165.0	121.5	27.47
068.0	004.6400	0568.0	089.7	173.2	001.2300	0164.8	123.0	27.17
069.0	004.6400	0567.8	089.7	173.0	001.2300	0164.5	124.5	26.87
070.0	004.6400	0568.0	089.7	172.8	001.2300	0164.2	126.0	26.57
071.0	004.6400	0568.5	089.8	172.6	001.2300	0164.0	127.5	26.27
072.0	004.6400	0569.1	089.8	172.5	001.2300	0163.7	129.1	25.97
073.0	004.6400	0569.9	089.8	172.4	001.2300	0163.5	130.6	25.66
074.0	004.6400	0570.2	089.8	172.3	001.2300	0163.3	132.1	25.36
075.0	004.6400	0570.4	089.8	172.2	001.2300	0163.2	133.7	25.05
076.0	004.6400	0570.6	089.8	172.1	001.2300	0163.1	135.3	24.74
077.0	004.6400	0570.5	089.8	172.0	001.2300	0163.1	136.8	24.43
078.0	004.6400	0570.1	089.8	172.0	001.2300	0163.1	138.4	24.12
079.0	004.6400	0569.1	089.8	172.0	001.2300	0163.1	139.9	23.82
080.0	004.6400	0568.6	089.8	171.9	001.2300	0163.0	141.5	23.52
081.0	004.6400	0569.0	089.8	171.9	001.2300	0163.0	143.1	23.22
082.0	004.6400	0569.7	089.8	171.9	001.2300	0163.0	144.6	22.93