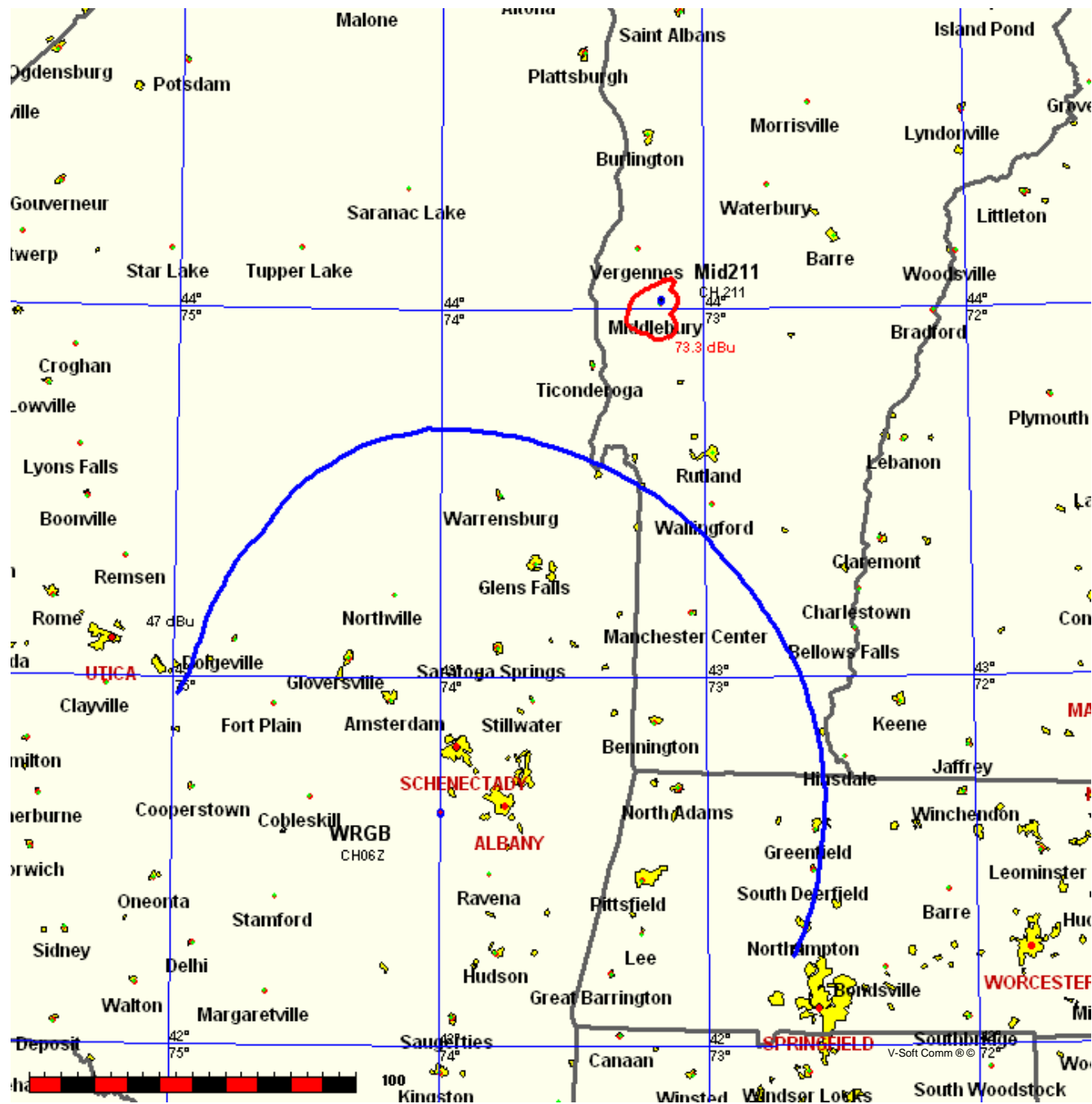


Vermont Public Radio  
Middlebury 211 WRGB

FMCommander Single Allocation Study  
10-11-2007

Mid211	CH 211 A	WRGB	CH 06Z 1C	BLCT2492
1.23 kW	281.3 M COR DA	93.3 kW	555 M COR	
Intef. = 73.3 dBu		Prot. = 47 dBu		



10-11-2007 USGS 03 SEC Terrain Data

WRGB BLCT2492  
 Channel = 06Z1C  
 Max ERP = 93.3 kW  
 RCAMSL = 555 M  
 N. Lat. 42 38 12.0  
 W. Lng. 73 59 45.0  
 Protected  
 47 dBu

Mid211  
 Channel = 211A  
 Max ERP = 1.23 kW  
 RCAMSL = 281.3 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)
323.0	093.3000	0261.2	099.3	239.8	001.1668	0194.8	147.2	23.04
324.0	093.3000	0264.8	099.6	240.0	001.1526	0194.9	145.8	23.23
325.0	093.3000	0266.9	099.8	240.2	001.1454	0194.9	144.1	23.52
326.0	093.3000	0267.0	099.8	240.2	001.1430	0194.9	142.3	23.84
327.0	093.3000	0271.8	100.3	240.4	001.1315	0195.1	140.6	24.12
328.0	093.3000	0281.2	101.1	240.8	001.1119	0195.3	138.9	24.38
329.0	093.3000	0289.9	101.9	241.2	001.0944	0195.5	137.1	24.65
330.0	093.3000	0299.7	102.7	241.5	001.0762	0195.5	135.4	24.92
331.0	093.3000	0311.2	103.7	241.9	001.0564	0195.3	133.6	25.18
332.0	093.3000	0322.0	104.5	242.3	001.0398	0195.2	131.8	25.47
333.0	093.3000	0333.1	105.3	242.6	001.0240	0195.4	129.9	25.76
334.0	093.3000	0345.8	106.2	243.0	001.0063	0195.6	128.0	26.06
335.0	093.3000	0356.4	106.9	243.3	000.9922	0195.6	126.2	26.37
336.0	093.3000	0364.0	107.5	243.5	000.9823	0195.5	124.3	26.69
337.0	093.3000	0369.6	107.9	243.7	000.9759	0195.3	122.4	27.04
338.0	093.3000	0374.7	108.3	243.8	000.9705	0195.1	120.4	27.40
339.0	093.3000	0380.4	108.8	243.9	000.9642	0194.9	118.5	27.76
340.0	093.3000	0386.4	109.3	244.1	000.9576	0194.7	116.5	28.12
341.0	093.3000	0392.2	109.8	244.2	000.9521	0194.5	114.6	28.49
342.0	093.3000	0397.4	110.3	244.3	000.9483	0194.4	112.6	28.88
343.0	093.3000	0402.0	110.7	244.3	000.9461	0194.3	110.6	29.29
344.0	093.3000	0407.5	111.2	244.4	000.9429	0194.2	108.7	29.73
345.0	093.3000	0413.0	111.6	244.5	000.9404	0194.1	106.7	30.20
346.0	093.3000	0418.8	112.2	244.5	000.9379	0194.0	104.6	30.70
347.0	093.3000	0423.8	112.6	244.5	000.9379	0194.0	102.6	31.23
348.0	093.3000	0428.6	113.0	244.5	000.9391	0194.1	100.6	31.78
349.0	093.3000	0433.3	113.4	244.4	000.9416	0194.2	098.6	32.37
350.0	093.3000	0436.5	113.7	244.3	000.9482	0194.4	096.6	32.98
351.0	093.3000	0438.6	113.9	244.0	000.9590	0194.8	094.6	33.61
352.0	093.3000	0440.4	114.1	243.7	000.9718	0195.2	092.7	34.27
353.0	093.3000	0441.5	114.2	243.4	000.9882	0195.6	090.8	34.93
354.0	093.3000	0442.9	114.3	243.0	001.0054	0195.6	088.9	35.60
355.0	093.3000	0445.1	114.5	242.6	001.0231	0195.4	086.9	36.26
356.0	093.3000	0447.8	114.8	242.2	001.0416	0195.2	085.0	36.94
357.0	093.3000	0451.9	115.1	241.9	001.0587	0195.3	083.0	37.64

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
358.0	093.3000	0458.1	115.7	241.6	001.0723	0195.4	081.0	38.36
359.0	093.3000	0456.7	115.6	240.9	001.1101	0195.3	079.2	39.06
000.0	093.3000	0456.7	115.6	240.1	001.1482	0194.9	077.5	39.76
001.0	093.3000	0456.8	115.6	239.3	001.1901	0195.1	075.7	40.49
002.0	093.3000	0456.5	115.5	238.5	001.2199	0195.8	074.0	41.17
003.0	093.3000	0456.5	115.5	237.6	001.2300	0196.0	072.4	41.76
004.0	093.3000	0456.8	115.6	236.6	001.2300	0196.2	070.8	42.31
005.0	093.3000	0456.3	115.5	235.6	001.2300	0195.7	069.2	42.81
006.0	093.3000	0456.0	115.5	234.4	001.2300	0195.2	067.7	43.29
007.0	093.3000	0456.0	115.5	233.2	001.2300	0195.3	066.2	43.80
008.0	093.3000	0455.5	115.4	232.0	001.2300	0196.9	064.8	44.34
009.0	093.3000	0455.7	115.5	230.6	001.2300	0196.6	063.4	44.80
010.0	093.3000	0455.6	115.5	229.2	001.2300	0193.7	062.1	45.13
011.0	093.3000	0455.2	115.4	227.7	001.2300	0190.1	060.9	45.41
012.0	093.3000	0454.9	115.4	226.1	001.2300	0184.5	059.8	45.58
013.0	093.3000	0454.7	115.4	224.5	001.2300	0179.7	058.7	45.76
014.0	093.3000	0454.5	115.4	222.7	001.2300	0176.4	057.7	45.98
015.0	093.3000	0454.4	115.4	220.9	001.2300	0175.7	056.8	46.29
016.0	093.3000	0454.2	115.3	219.1	001.2300	0175.4	056.0	46.58
017.0	093.3000	0454.0	115.3	217.1	001.2300	0176.0	055.3	46.88
018.0	093.3000	0453.6	115.3	215.1	001.2300	0172.0	054.7	46.93
019.0	093.3000	0452.9	115.2	213.1	001.2300	0168.5	054.2	46.94
020.0	093.3000	0452.7	115.2	211.0	001.2300	0168.9	053.8	47.11
021.0	093.3000	0453.0	115.2	208.9	001.2300	0165.3	053.4	47.07
022.0	093.3000	0453.4	115.3	206.7	001.2300	0160.6	053.2	46.93
023.0	093.3000	0453.7	115.3	204.6	001.2300	0155.0	053.0	46.70
024.0	093.3000	0453.9	115.3	202.4	001.2300	0151.1	053.0	46.50
025.0	093.3000	0454.1	115.3	200.2	001.2300	0154.8	053.1	46.66
026.0	093.3000	0454.2	115.3	198.1	001.2300	0159.6	053.3	46.82
027.0	093.3000	0454.3	115.3	195.9	001.2300	0158.9	053.7	46.66
028.0	093.3000	0454.6	115.4	193.8	001.2300	0162.8	054.1	46.70
029.0	093.3000	0454.9	115.4	191.8	001.2300	0167.2	054.6	46.72
030.0	093.3000	0455.3	115.4	189.8	001.2300	0173.9	055.2	46.81
031.0	093.3000	0456.0	115.5	187.8	001.2300	0178.6	055.9	46.77
032.0	093.3000	0457.3	115.6	185.9	001.2300	0178.9	056.6	46.51
033.0	093.3000	0458.4	115.7	184.1	001.2300	0176.6	057.5	46.09
034.0	093.3000	0459.4	115.8	182.3	001.2300	0173.8	058.4	45.61
035.0	093.3000	0459.5	115.8	180.7	001.2300	0170.4	059.5	45.04
036.0	093.3000	0459.0	115.8	179.1	001.2300	0167.6	060.7	44.47
037.0	093.3000	0458.6	115.7	177.7	001.2300	0165.6	062.0	43.92
038.0	093.3000	0458.8	115.8	176.3	001.2300	0163.4	063.3	43.36
039.0	093.3000	0459.3	115.8	174.9	001.2300	0160.1	064.6	42.74
040.0	093.3000	0459.5	115.8	173.7	001.2300	0158.9	066.1	42.21
041.0	093.3000	0459.7	115.8	172.5	001.2300	0156.9	067.5	41.62
042.0	093.3000	0460.2	115.9	171.3	001.2300	0156.2	069.0	41.09
043.0	093.3000	0460.4	115.9	170.3	001.2300	0157.0	070.6	40.62
044.0	093.3000	0460.3	115.9	169.4	001.2300	0158.1	072.2	40.14
045.0	093.3000	0459.5	115.8	168.5	001.2300	0159.8	074.0	39.68
046.0	093.3000	0457.9	115.7	167.8	001.2300	0160.3	075.7	39.13
047.0	093.3000	0456.0	115.5	167.1	001.2300	0160.0	077.6	38.54
048.0	093.3000	0455.0	115.4	166.4	001.2300	0159.2	079.4	37.94

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
049.0	093.3000	0454.9	115.4	165.8	001.2300	0158.0	081.1	37.33
050.0	093.3000	0455.3	115.4	165.1	001.2300	0156.2	082.9	36.70
051.0	093.3000	0455.8	115.5	164.6	001.2300	0155.8	084.7	36.13
052.0	093.3000	0456.8	115.6	164.0	001.2300	0155.7	086.6	35.58
053.0	093.3000	0458.1	115.7	163.4	001.2300	0155.0	088.4	35.01
054.0	093.3000	0459.3	115.8	162.9	001.2300	0154.2	090.3	34.43
055.0	093.3000	0460.2	115.9	162.5	001.2300	0153.0	092.2	33.84
056.0	093.3000	0460.6	115.9	162.1	001.2300	0151.6	094.1	33.24
057.0	093.3000	0461.1	116.0	161.7	001.2300	0150.5	096.0	32.66
058.0	093.3000	0461.9	116.0	161.4	001.2300	0149.4	098.0	32.09
059.0	093.3000	0462.9	116.1	161.1	001.2300	0149.2	099.9	31.57
060.0	093.3000	0463.7	116.2	160.8	001.2300	0149.1	101.9	31.07
061.0	093.3000	0464.8	116.3	160.6	001.2300	0148.8	103.9	30.58
062.0	093.3000	0465.9	116.4	160.3	001.2300	0148.4	105.8	30.11
063.0	093.3000	0467.0	116.5	160.1	001.2300	0148.2	107.8	29.65
064.0	093.3000	0468.3	116.6	160.0	001.2300	0148.0	109.8	29.22
065.0	093.3000	0469.9	116.8	159.8	001.2300	0148.0	111.9	28.80
066.0	093.3000	0471.8	116.9	159.6	001.2300	0147.9	113.9	28.41
067.0	093.3000	0473.4	117.1	159.5	001.2300	0147.8	115.9	28.02
068.0	093.3000	0475.1	117.3	159.4	001.2300	0147.7	117.9	27.63
069.0	093.3000	0476.4	117.4	159.3	001.2300	0147.6	120.0	27.25
070.0	093.3000	0477.5	117.5	159.3	001.2300	0147.6	122.0	26.86
071.0	093.3000	0478.0	117.5	159.3	001.2300	0147.6	124.1	26.48
072.0	093.3000	0477.1	117.4	159.3	001.2300	0147.7	126.1	26.10
073.0	093.3000	0476.3	117.4	159.4	001.2300	0147.7	128.1	25.72
074.0	093.3000	0475.9	117.3	159.5	001.2300	0147.8	130.2	25.33
075.0	093.3000	0475.6	117.3	159.6	001.2300	0147.9	132.2	24.94
076.0	093.3000	0476.6	117.4	159.6	001.2300	0147.9	134.3	24.53
077.0	093.3000	0477.5	117.5	159.7	001.2300	0147.9	136.3	24.13
078.0	093.3000	0478.3	117.5	159.8	001.2300	0148.0	138.3	23.73
079.0	093.3000	0478.9	117.6	159.9	001.2300	0148.0	140.4	23.34
080.0	093.3000	0478.8	117.6	160.0	001.2300	0148.0	142.4	22.95
081.0	093.3000	0478.2	117.5	160.2	001.2300	0148.2	144.4	22.59
082.0	093.3000	0477.9	117.5	160.4	001.2300	0148.5	146.4	22.23
083.0	093.3000	0477.1	117.4	160.6	001.2300	0148.8	148.4	21.91

# Channel-Six TV Protection Study

WRGB LI 06Z 1C Dom Int 93.300 kW 311 M HAAT VHN  
Schenectady NY 555.0 M COR AMSL  
Lat= 42 38 12.0, Lng= 73 59 45.0  
Freedom Broadcasting Of New BLCT2492  
Fac ID# 73942  
Dist.=168.52 km, Azi=203.9°, Rev Azi=23.3°

Direct line HAAT Grade B, 47 dBu= 115.3 km & Grade A= 63.21 km

Distance from reference to Grade B = 53.23 km

Cutoff Dist from Full Service or Class CA= 196

Maximum Co-located power= 26.3 kW

WRGB Signal Contour at Reference location = 32.7 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