

Protection to Channel Six TV - WRGB  
Peconic Public Broadcasting

FMCommander Single Allocation Study - 10-04-2017 - GLOBE 30 Sec

WPPB's Overlaps 164.24 Req km, 68.44 Mar km)

WPPB CH 202 B

Lat= 40 53 17.8, Lng= 72 26 43.1

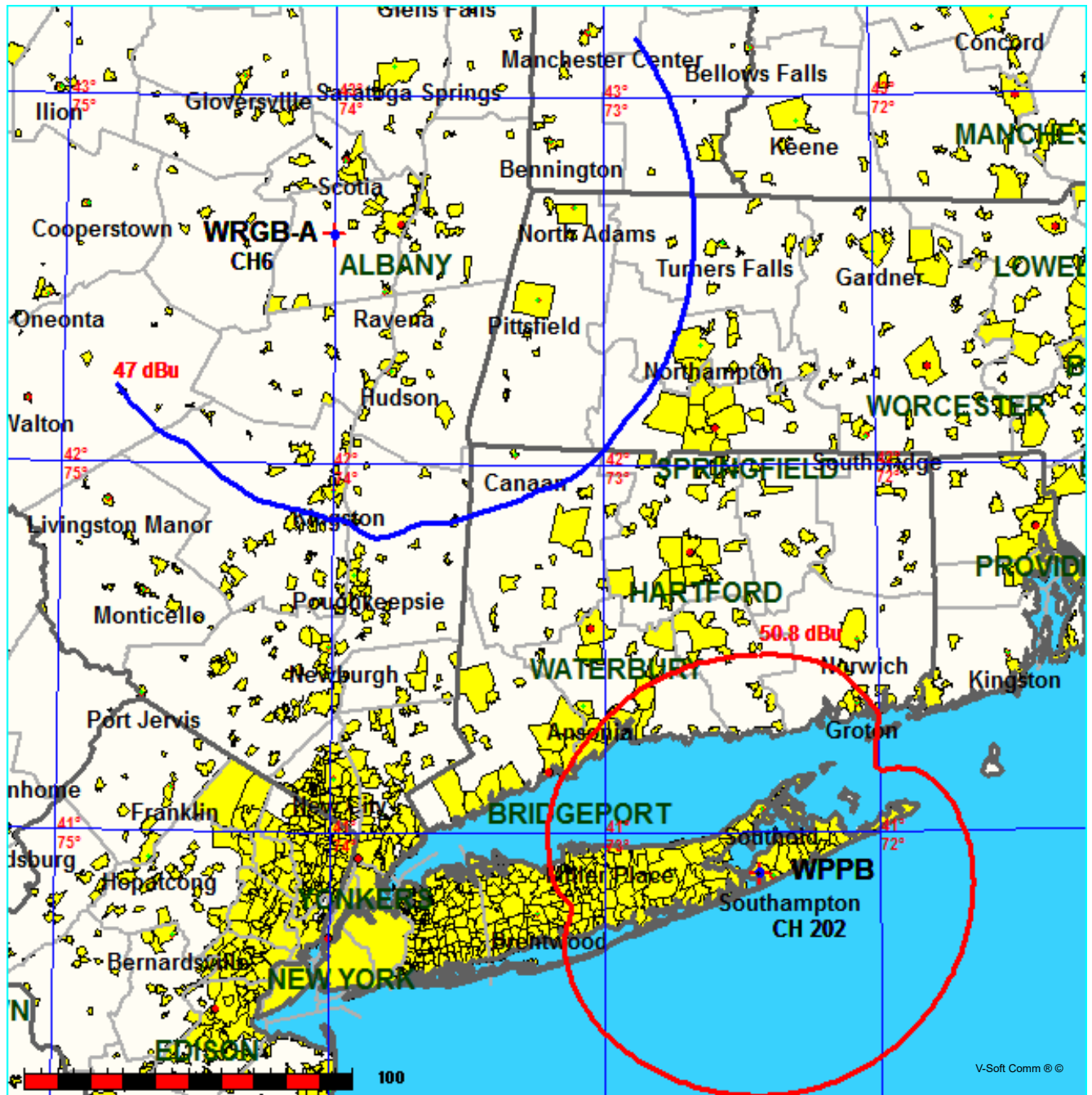
29.0 kW 64.6 m HAAT, 73.3 m COR

Intef. = 50.8 dBu Prot. = 47 dBu

WRGB-A CH 6 -- DTVBL73942

Lat= 42 37 31.0, Lng= 74 00 38.0

30.2 kW 392 m HAAT, 649 m COR



Channel-Six TV Protection Study

WRGB-A CHA 6 -- Dom 30.200 kW 392 m HAAT T Y Non-DA  
Schenectady NY 649.0 m COR AMSL -  
Lat= 42 37 31.0, Lng= 74 00 38.0 - NAD 27

Fac ID# 73942 DTVBL73942  
Dist.=232.69 km, Azi=326.6°, Rev Azi=145.6°

Direct line HAAT Grade B, 47 dBu= 98.07 km & Grade A= 49.71 km

Distance from reference to Grade B = 134.62 km  
Cutoff Dist from Full Service or Class CA= 257  
Maximum Co-located power= 1.9 kW  
WRGB-A Signal Contour at Reference location = 15.7 dBu  
Add 6 dB to FM Contour value if within angle.

TV/FM D to U values.

47.0	50.8		55.0	55.8		63.0	61.3		71.0	67.7		79.0	74.8		87.0	82.2
48.0	51.4		56.0	56.4		64.0	62.0		72.0	68.5		80.0	75.8		88.0	83.1
49.0	52.0		57.0	57.1		65.0	62.7		73.0	69.4		81.0	76.7		89.0	84.0
50.0	52.6		58.0	57.8		66.0	63.5		74.0	70.3		82.0	77.6		90.0	84.9
51.0	53.2		59.0	58.5		67.0	64.3		75.0	71.2		83.0	78.5		91.0	84.9
52.0	53.8		60.0	59.2		68.0	65.1		76.0	72.1		84.0	79.4		92.0	84.9
53.0	54.5		61.0	59.9		69.0	66.0		77.0	73.0		85.0	80.4		93.0	84.9
54.0	55.1		62.0	60.6		70.0	66.8		78.0	73.9		86.0	81.3		94.0	84.9

10-04-2017

Terrain Data: GLOBE 30 Sec

FMOver Analysis

WRGB-A DTVBL73942

WPPB

Channel = 6 --

Max ERP = 30.2 kW

RCAMSL = 649 m

N. Lat. 42 37 31.0

W. Lng. 74 00 38.0

Protected

47 dBu

Channel = 202B

Max ERP = 29 kW

RCAMSL = 73.3 m

N. Lat. 40 53 17.8

W. Lng. 72 26 43.1

Interfering

50.8 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
086.0	030.2000	0562.3	110.6	355.0	029.0000	0069.9	200.7	23.94	
087.0	030.2000	0560.4	110.4	354.9	029.0000	0069.9	198.8	24.20	
088.0	030.2000	0558.6	110.3	354.8	029.0000	0069.8	196.9	24.48	
089.0	030.2000	0557.7	110.3	354.8	029.0000	0069.8	195.0	24.78	
090.0	030.2000	0557.3	110.2	354.7	029.0000	0069.8	193.1	25.12	
091.0	030.2000	0556.9	110.2	354.6	029.0000	0069.8	191.2	25.47	
092.0	030.2000	0556.5	110.2	354.5	029.0000	0069.8	189.3	25.82	
093.0	030.2000	0556.2	110.2	354.4	029.0000	0069.8	187.4	26.17	
094.0	030.2000	0555.8	110.1	354.3	029.0000	0069.8	185.5	26.52	
095.0	030.2000	0555.3	110.1	354.2	029.0000	0069.7	183.6	26.87	
096.0	030.2000	0554.9	110.1	354.1	029.0000	0069.7	181.7	27.21	
097.0	030.2000	0554.7	110.1	353.9	029.0000	0069.7	179.9	27.56	
098.0	030.2000	0554.3	110.0	353.8	029.0000	0069.7	178.0	27.90	
099.0	030.2000	0553.9	110.0	353.6	029.0000	0069.7	176.2	28.24	
100.0	030.2000	0552.9	109.9	353.4	029.0000	0069.7	174.4	28.58	
101.0	030.2000	0551.4	109.8	353.1	029.0000	0069.7	172.6	28.91	
102.0	030.2000	0549.7	109.7	352.9	029.0000	0069.7	170.8	29.23	
103.0	030.2000	0548.1	109.6	352.6	029.0000	0069.7	169.1	29.56	
104.0	030.2000	0546.2	109.5	352.3	029.0000	0069.6	167.4	29.88	
105.0	030.2000	0544.4	109.3	352.0	029.0000	0069.6	165.7	30.19	
106.0	030.2000	0542.6	109.2	351.7	029.0000	0069.5	164.0	30.50	
107.0	030.2000	0540.8	109.1	351.4	029.0000	0069.5	162.3	30.80	
108.0	030.2000	0538.8	108.9	351.0	029.0000	0069.4	160.7	31.10	
109.0	030.2000	0536.7	108.7	350.6	029.0000	0069.3	159.1	31.38	
110.0	030.2000	0534.6	108.6	350.2	029.0000	0069.2	157.6	31.66	
111.0	030.2000	0532.4	108.4	349.8	029.0000	0069.1	156.1	31.93	
112.0	030.2000	0530.3	108.2	349.4	029.0000	0069.0	154.6	32.18	
113.0	030.2000	0528.3	108.0	348.9	029.0000	0068.9	153.1	32.44	
114.0	030.2000	0526.3	107.9	348.5	029.0000	0068.9	151.7	32.69	
115.0	030.2000	0524.0	107.7	348.0	029.0000	0069.0	150.3	32.93	
116.0	030.2000	0521.6	107.5	347.5	029.0000	0069.2	149.0	33.17	
117.0	030.2000	0519.0	107.2	346.9	029.0000	0069.4	147.7	33.40	
118.0	030.2000	0515.9	107.0	346.4	029.0000	0069.7	146.5	33.63	
119.0	030.2000	0512.1	106.6	345.8	029.0000	0069.9	145.4	33.84	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
120.0	030.2000	0507.5	106.2	345.1	029.0000	0070.1	144.3	34.04
121.0	030.2000	0502.2	105.8	344.5	029.0000	0070.2	143.4	34.21
122.0	030.2000	0497.6	105.4	343.8	029.0000	0070.1	142.5	34.38
123.0	030.2000	0494.9	105.1	343.2	029.0000	0070.1	141.5	34.56
124.0	030.2000	0494.4	105.1	342.6	029.0000	0070.0	140.4	34.77
125.0	030.2000	0495.3	105.2	342.0	029.0000	0069.8	139.2	34.98
126.0	030.2000	0496.6	105.3	341.4	029.0000	0069.7	138.1	35.20
127.0	030.2000	0497.3	105.4	340.8	029.0000	0069.6	137.0	35.40
128.0	030.2000	0497.6	105.4	340.1	029.0000	0069.5	136.0	35.58
129.0	030.2000	0496.8	105.3	339.4	029.0000	0069.5	135.1	35.74
130.0	030.2000	0494.7	105.1	338.7	029.0000	0069.5	134.4	35.88
131.0	030.2000	0491.5	104.9	338.0	029.0000	0069.4	133.8	35.99
132.0	030.2000	0487.7	104.5	337.2	029.0000	0069.3	133.3	36.07
133.0	030.2000	0483.8	104.2	336.4	029.0000	0069.2	132.9	36.15
134.0	030.2000	0479.8	103.9	335.6	029.0000	0069.1	132.6	36.21
135.0	030.2000	0475.2	103.5	334.9	029.0000	0069.1	132.3	36.26
136.0	030.2000	0469.8	103.0	334.1	029.0000	0069.2	132.2	36.29
137.0	030.2000	0463.1	102.5	333.2	029.0000	0069.4	132.2	36.29
138.0	030.2000	0455.0	101.8	332.4	029.0000	0069.6	132.4	36.26
139.0	030.2000	0445.2	101.1	331.6	029.0000	0069.9	132.8	36.20
140.0	030.2000	0434.5	100.2	330.8	029.0000	0070.2	133.3	36.11
141.0	030.2000	0425.4	099.5	330.0	029.0000	0070.4	133.8	36.03
142.0	030.2000	0420.2	099.1	329.2	029.0000	0070.5	134.0	36.00
143.0	030.2000	0417.4	098.8	328.5	029.0000	0070.5	134.0	35.99
144.0	030.2000	0414.8	098.6	327.8	029.0000	0070.4	134.1	35.97
145.0	030.2000	0410.9	098.3	327.0	029.0000	0070.3	134.4	35.92
146.0	030.2000	0404.5	097.8	326.3	029.0000	0070.2	134.9	35.82
147.0	030.2000	0396.8	097.3	325.6	029.0000	0070.1	135.5	35.70
148.0	030.2000	0389.5	096.7	324.9	029.0000	0070.0	136.1	35.57
149.0	030.2000	0382.6	096.2	324.2	029.0000	0070.0	136.8	35.45
150.0	030.2000	0376.2	095.8	323.5	029.0000	0070.1	137.4	35.33
151.0	030.2000	0370.2	095.3	322.9	029.0000	0070.2	138.1	35.21
152.0	030.2000	0365.5	095.0	322.2	029.0000	0070.1	138.6	35.10
153.0	030.2000	0363.2	094.9	321.5	029.0000	0069.9	139.1	35.00
154.0	030.2000	0362.5	094.9	320.9	029.0000	0069.6	139.6	34.91
155.0	030.2000	0361.2	094.8	320.2	029.0000	0069.3	140.1	34.80
156.0	030.2000	0358.0	094.6	319.6	029.0000	0069.1	140.7	34.67
157.0	030.2000	0352.4	094.2	319.0	029.0000	0069.0	141.6	34.51
158.0	030.2000	0344.2	093.7	318.5	029.0000	0069.0	142.6	34.32
159.0	030.2000	0334.2	093.1	318.0	029.0000	0068.9	143.8	34.10
160.0	030.2000	0324.5	092.5	317.5	029.0000	0069.0	145.0	33.88
161.0	030.2000	0316.9	092.0	317.0	029.0000	0068.9	146.1	33.67
162.0	030.2000	0311.8	091.6	316.5	029.0000	0068.9	147.1	33.49
163.0	030.2000	0309.5	091.4	315.9	029.0000	0068.8	148.0	33.33
164.0	030.2000	0310.5	091.5	315.4	029.0000	0068.7	148.7	33.20
165.0	030.2000	0314.6	091.8	314.8	029.0000	0068.5	149.3	33.09
166.0	030.2000	0319.8	092.2	314.2	029.0000	0068.4	149.8	32.99
167.0	030.2000	0324.2	092.5	313.6	029.0000	0068.4	150.5	32.88
168.0	030.2000	0327.7	092.7	313.1	029.0000	0068.4	151.2	32.75
169.0	030.2000	0330.5	092.9	312.5	029.0000	0068.5	152.0	32.61
170.0	030.2000	0330.6	092.9	312.1	029.0000	0068.6	153.0	32.44

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
171.0	030.2000	0327.3	092.7		311.7	029.0000	0068.6	154.2	32.23
172.0	030.2000	0320.2	092.2		311.3	029.0000	0068.6	155.6	31.98
173.0	030.2000	0309.7	091.4		311.1	029.0000	0068.6	157.3	31.69
174.0	030.2000	0295.2	090.3		310.9	029.0000	0068.6	159.2	31.35
175.0	030.2000	0278.5	088.8		310.9	029.0000	0068.6	161.3	30.95
176.0	030.2000	0265.4	087.6		310.8	029.0000	0068.7	163.3	30.59
177.0	030.2000	0256.4	086.7		310.7	029.0000	0068.7	165.0	30.28
178.0	030.2000	0251.4	086.3		310.5	029.0000	0068.7	166.4	30.01
179.0	030.2000	0249.1	086.1		310.2	029.0000	0068.7	167.7	29.77
180.0	030.2000	0247.1	085.9		309.9	029.0000	0068.7	169.0	29.54
181.0	030.2000	0244.6	085.7		309.7	029.0000	0068.7	170.3	29.29
182.0	030.2000	0240.4	085.3		309.5	029.0000	0068.7	171.7	29.03
183.0	030.2000	0236.4	084.9		309.3	029.0000	0068.7	173.1	28.77
184.0	030.2000	0232.2	084.5		309.1	029.0000	0068.8	174.6	28.51
185.0	030.2000	0228.1	084.2		308.9	029.0000	0068.8	176.0	28.24
186.0	030.2000	0225.1	083.9		308.7	029.0000	0068.8	177.4	27.99
187.0	030.2000	0223.9	083.8		308.5	029.0000	0068.8	178.7	27.74
188.0	030.2000	0223.3	083.7		308.3	029.0000	0068.9	180.0	27.51
189.0	030.2000	0222.9	083.7		308.1	029.0000	0068.9	181.3	27.27
190.0	030.2000	0221.4	083.6		307.9	029.0000	0069.0	182.6	27.02
191.0	030.2000	0219.4	083.4		307.8	029.0000	0069.0	184.0	26.76
192.0	030.2000	0219.2	083.4		307.6	029.0000	0069.0	185.4	26.52
193.0	030.2000	0220.1	083.4		307.4	029.0000	0069.1	186.6	26.28
194.0	030.2000	0220.1	083.4		307.2	029.0000	0069.1	188.0	26.03
195.0	030.2000	0218.6	083.3		307.1	029.0000	0069.1	189.4	25.77
196.0	030.2000	0215.7	083.0		307.0	029.0000	0069.1	190.8	25.51
197.0	030.2000	0211.6	082.7		307.0	029.0000	0069.1	192.3	25.23
198.0	030.2000	0207.1	082.3		307.0	029.0000	0069.1	193.8	24.96
199.0	030.2000	0203.5	081.9		306.9	029.0000	0069.1	195.3	24.71
200.0	030.2000	0201.1	081.7		306.9	029.0000	0069.1	196.7	24.48
201.0	030.2000	0199.2	081.5		306.8	029.0000	0069.2	198.1	24.27
202.0	030.2000	0196.9	081.3		306.8	029.0000	0069.2	199.6	24.07
203.0	030.2000	0193.5	081.0		306.8	029.0000	0069.2	201.0	23.87
204.0	030.2000	0189.6	080.6		306.8	029.0000	0069.2	202.5	23.67
205.0	030.2000	0185.7	080.3		306.8	029.0000	0069.2	203.9	23.47