

## WPVI ABC CH-6 and WABC ABC Network Affiliations

### WBGO

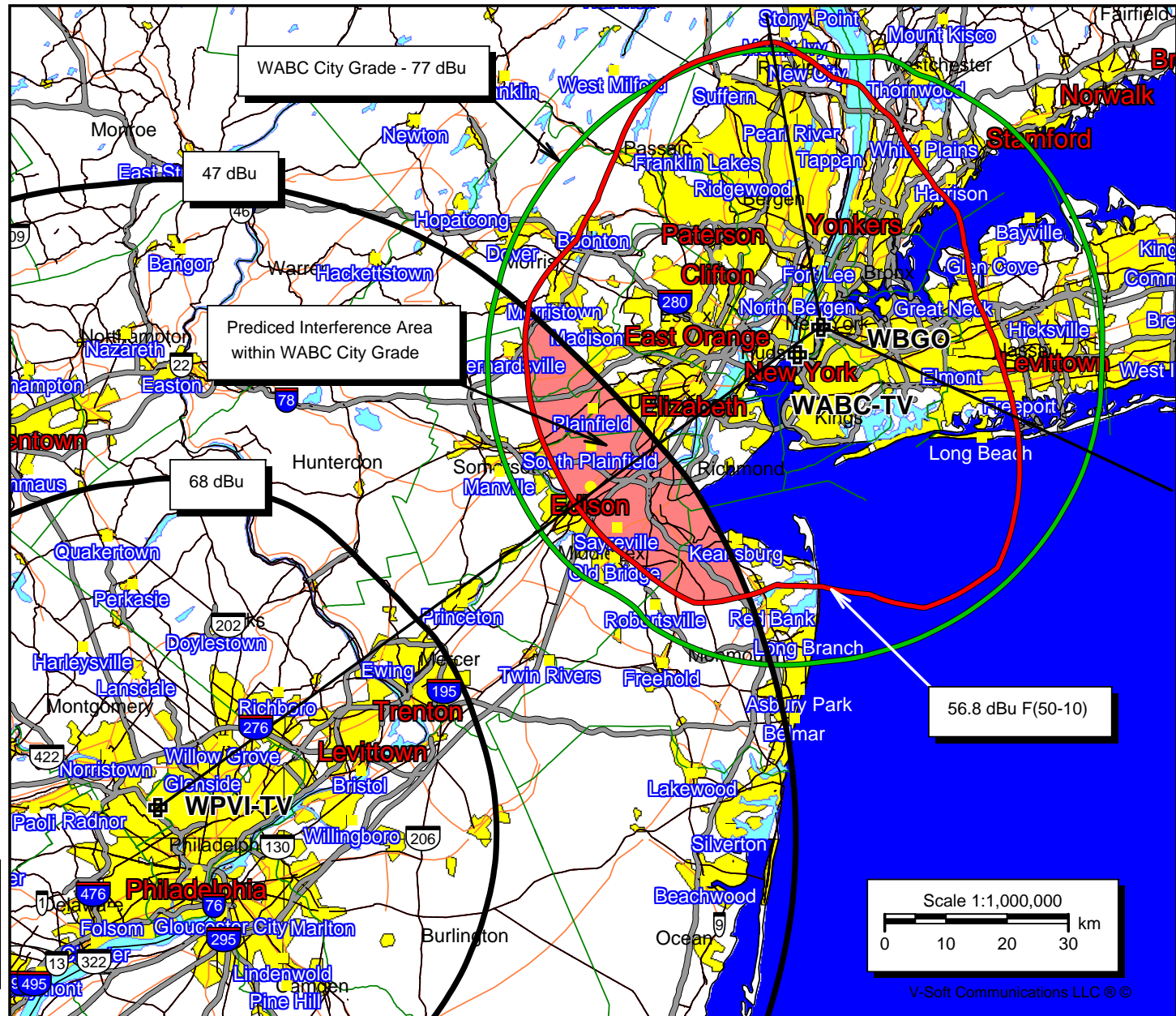
Latitude: 40-45-08 N  
Longitude: 073-58-04 W  
Study ERP: 2.75 kW  
Channel: 202  
Frequency: 88.3 MHz  
AMSL Height: 279.5 m  
Horiz. Pattern: Directional  
Prop Model: FCC

### WPVI-TV ABC

BLCT2282  
Latitude: 40-02-39 N  
Longitude: 075-14-26 W  
ERP: 74.10 kW  
Channel: 06-  
Frequency: 84.5 MHz  
AMSL Height: 404.0 m  
Horiz. Pattern: Omni  
Prop Model: FCC

### WABC-TV ABC

BLCT19800730KG  
Latitude: 40-42-43 N  
Longitude: 074-00-49 W  
ERP: 64.60 kW  
Channel: 07Z  
Frequency: 177.0 MHz  
AMSL Height: 502.0 m  
Horiz. Pattern: Omni  
Prop Model: FCC



# Channel-Six TV Protection Study

WPVI-TV LI 06- 1C Dom 74.100 kW 332 M HAAT VHN  
Philadelphia PA 404.0 M COR AMSL  
Lat= 40 02 39.0, Lng= 75 14 26.0  
Abc, Inc. BLCT2282  
Fac ID# 8616  
Dist.=133.63 km, Azi=234.3°, Rev Azi=53.4°

Direct line HAAT Grade B, 47 dBu= 100.96 km & Grade A= 52.25 km

Distance from reference to Grade B = 32.67 km

Cutoff Dist from Full Service or Class CA= 257

Maximum Co-located power= 1.9 kW

WPVI-TV Signal Contour at Reference location = 36.3 dBu

CH. 202, U/D ratio = 9.8 dB, Maximum FM signal = 56.8 dBu , 6 dB credit added

## TV/FM D to U values

47.0	56.8	55.0	61.8	63.0	67.3	71.0	73.7	79.0	80.8	87.0	88.2
48.0	57.4	56.0	62.4	64.0	68.0	72.0	74.5	80.0	81.8	88.0	89.1
49.0	58.0	57.0	63.1	65.0	68.7	73.0	75.4	81.0	82.7	89.0	90.0
50.0	58.6	58.0	63.8	66.0	69.5	74.0	76.3	82.0	83.6	90.0	90.9
51.0	59.2	59.0	64.5	67.0	70.3	75.0	77.2	83.0	84.5	91.0	90.9
52.0	59.8	60.0	65.2	68.0	71.1	76.0	78.1	84.0	85.4	92.0	90.9
53.0	60.5	61.0	65.9	69.0	72.0	77.0	79.0	85.0	86.4	93.0	90.9
54.0	61.1	62.0	66.6	70.0	72.8	78.0	79.9	86.0	87.3	94.0	90.9

01-30-2009 FCC NGDC 30 Sec Terrain Data

WPVI-TV BLCT2282  
 Channel = 06-1C  
 Max ERP = 74.1 kW  
 RCAMSL = 404 M  
 N. Lat. 40 02 39.0  
 W. Lng. 75 14 26.0  
 Protected  
 47 dBu

WBGO  
 Channel = 202B1  
 Max ERP = 2.75 kW  
 RCAMSL = 279.5 M  
 N. Lat. 40 45 08.0  
 W. Lng. 73 58 04.0  
 Interfering  
 50.8 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
353.0	074.1000	0324.6	102.0	281.2	002.2677	0257.3	121.5	32.34	
354.0	074.1000	0324.3	102.0	281.4	002.2492	0257.3	119.9	32.65	
355.0	074.1000	0324.6	102.0	281.7	002.2290	0257.2	118.2	32.98	
356.0	074.1000	0325.5	102.1	281.9	002.2078	0257.2	116.5	33.31	
357.0	074.1000	0327.0	102.2	282.2	002.1856	0257.2	114.8	33.65	
358.0	074.1000	0328.8	102.3	282.5	002.1633	0257.1	113.1	34.00	
359.0	074.1000	0330.6	102.4	282.8	002.1418	0257.1	111.4	34.37	
000.0	074.1000	0331.8	102.5	283.0	002.1225	0257.0	109.7	34.76	
001.0	074.1000	0332.2	102.5	283.2	002.1060	0256.9	107.9	35.19	
002.0	074.1000	0332.7	102.6	283.4	002.0903	0256.9	106.2	35.64	
003.0	074.1000	0333.2	102.6	283.6	002.0753	0256.8	104.4	36.10	
004.0	074.1000	0333.8	102.6	283.8	002.0608	0256.8	102.7	36.58	
005.0	074.1000	0334.3	102.7	283.9	002.0475	0256.8	100.9	37.08	
006.0	074.1000	0334.9	102.7	284.1	002.0352	0256.7	099.2	37.59	
007.0	074.1000	0335.1	102.7	284.2	002.0247	0256.7	097.4	38.11	
008.0	074.1000	0334.8	102.7	284.3	002.0169	0256.7	095.6	38.65	
009.0	074.1000	0334.5	102.7	284.4	002.0104	0256.7	093.8	39.19	
010.0	074.1000	0334.2	102.7	284.5	002.0052	0256.7	092.0	39.73	
011.0	074.1000	0333.7	102.6	284.5	002.0019	0256.7	090.3	40.29	
012.0	074.1000	0333.3	102.6	284.6	001.9997	0256.7	088.5	40.85	
013.0	074.1000	0333.2	102.6	284.6	001.9980	0256.7	086.7	41.41	
014.0	074.1000	0333.0	102.6	284.6	001.9978	0256.7	084.9	41.98	
015.0	074.1000	0332.7	102.6	284.6	002.0000	0256.7	083.1	42.56	
016.0	074.1000	0332.3	102.5	284.5	002.0042	0256.7	081.4	43.14	
017.0	074.1000	0332.2	102.5	284.4	002.0096	0256.7	079.6	43.73	
018.0	074.1000	0332.2	102.5	284.3	002.0162	0256.7	077.8	44.33	
019.0	074.1000	0332.2	102.5	284.2	002.0247	0256.7	076.0	44.94	
020.0	074.1000	0332.5	102.5	284.1	002.0350	0256.7	074.2	45.55	
021.0	074.1000	0332.8	102.6	284.0	002.0469	0256.8	072.5	46.17	
022.0	074.1000	0333.1	102.6	283.8	002.0618	0256.8	070.7	46.81	
023.0	074.1000	0332.9	102.6	283.5	002.0819	0256.9	068.9	47.45	
024.0	074.1000	0332.1	102.5	283.2	002.1076	0257.0	067.2	48.11	
025.0	074.1000	0331.2	102.5	282.8	002.1376	0257.1	065.5	48.77	
026.0	074.1000	0330.4	102.4	282.4	002.1710	0257.1	063.8	49.45	
027.0	074.1000	0329.6	102.3	281.9	002.2088	0257.2	062.1	50.14	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	
028.0	074.1000	0328.5	102.3	281.4	002.2530	0257.3	060.4	50.87**	0.17
029.0	074.1000	0327.0	102.2	280.8	002.3041	0257.3	058.7	51.60**	2.09
030.0	074.1000	0325.4	102.1	280.1	002.3627	0257.4	057.1	52.36**	4.02
031.0	074.1000	0323.4	101.9	279.3	002.4200	0257.7	055.5	53.11**	5.93
032.0	074.1000	0321.2	101.8	278.4	002.4875	0258.0	053.9	53.87**	7.85
033.0	074.1000	0318.9	101.6	277.4	002.5612	0258.3	052.4	54.63**	9.74
034.0	074.1000	0316.8	101.4	276.4	002.6430	0258.4	050.9	55.38**	11.63
035.0	074.1000	0314.8	101.3	275.2	002.7308	0258.5	049.4	56.12**	13.50
036.0	074.1000	0313.0	101.2	274.0	002.7500	0258.5	048.0	56.73**	15.02
037.0	074.1000	0311.2	101.0	272.7	002.7500	0259.1	046.6	57.32**	16.46
038.0	074.1000	0309.4	100.9	271.3	002.7500	0260.9	045.2	57.93**	17.98
039.0	074.1000	0307.7	100.8	269.8	002.7500	0262.9	044.0	58.55**	19.46
040.0	074.1000	0306.2	100.6	268.1	002.7500	0264.5	042.7	59.13**	20.85
041.0	074.1000	0304.9	100.5	266.4	002.7500	0265.4	041.5	59.69**	22.13
042.0	074.1000	0304.1	100.5	264.5	002.7500	0265.9	040.4	60.22**	23.35
043.0	074.1000	0304.0	100.5	262.6	002.7500	0266.3	039.2	60.74**	24.51
044.0	074.1000	0303.9	100.5	260.5	002.7500	0267.5	038.2	61.27**	25.68
045.0	074.1000	0303.8	100.4	258.3	002.7500	0270.0	037.2	61.81**	26.91
046.0	074.1000	0303.8	100.4	256.0	002.7500	0271.6	036.3	62.29**	27.97
047.0	074.1000	0304.3	100.5	253.6	002.7500	0272.4	035.4	62.72**	28.89
048.0	074.1000	0305.2	100.6	251.0	002.7500	0273.3	034.7	63.12**	29.76
049.0	074.1000	0305.9	100.6	248.3	002.7500	0273.9	034.0	63.47**	30.50
050.0	074.1000	0306.5	100.7	245.5	002.7500	0273.7	033.4	63.74**	31.04
051.0	074.1000	0307.3	100.7	242.6	002.7500	0274.1	033.0	63.97**	31.52
052.0	074.1000	0308.3	100.8	239.5	002.7500	0275.2	032.6	64.19**	31.99
053.0	074.1000	0309.6	100.9	236.5	002.7500	0277.0	032.4	64.37**	32.41
054.0	074.1000	0311.4	101.0	233.4	002.7500	0277.7	032.2	64.48**	32.66
055.0	074.1000	0313.9	101.2	230.2	002.7500	0277.5	032.1	64.52**	32.73
056.0	074.1000	0317.0	101.5	227.0	002.7500	0277.2	032.1	64.51**	32.70
057.0	074.1000	0319.9	101.7	223.9	002.7500	0276.8	032.3	64.42**	32.51
058.0	074.1000	0322.2	101.8	220.8	002.7500	0274.5	032.6	64.19**	31.97
059.0	074.1000	0323.5	101.9	217.8	002.7500	0274.0	033.1	63.92**	31.41
060.0	074.1000	0324.3	102.0	215.0	002.7500	0276.2	033.7	63.66**	30.96
061.0	074.1000	0324.8	102.0	212.3	002.7500	0277.6	034.5	63.33**	30.32
062.0	074.1000	0325.4	102.1	209.8	002.7500	0278.4	035.4	62.93**	29.51
063.0	074.1000	0326.1	102.1	207.4	002.7500	0278.9	036.4	62.48**	28.60
064.0	074.1000	0326.9	102.2	205.1	002.7500	0278.8	037.4	61.99**	27.54
065.0	074.1000	0327.8	102.2	203.1	002.6023	0277.5	038.5	61.18**	25.62
066.0	074.1000	0328.4	102.3	201.1	002.4654	0274.8	039.7	60.31**	23.51
067.0	074.1000	0328.7	102.3	199.4	002.3303	0271.8	041.0	59.40**	21.28
068.0	074.1000	0329.3	102.3	197.7	002.1951	0269.6	042.3	58.48**	19.05
069.0	074.1000	0329.9	102.4	196.2	002.0735	0268.9	043.7	57.61**	16.94
070.0	074.1000	0330.9	102.4	194.8	001.9635	0268.6	045.1	56.77**	14.88
071.0	074.1000	0331.6	102.5	193.5	001.8664	0267.4	046.6	55.90**	12.74
072.0	074.1000	0331.9	102.5	192.4	001.7817	0265.7	048.1	55.03**	10.54
073.0	074.1000	0332.2	102.5	191.4	001.7064	0264.2	049.7	54.16**	8.37
074.0	074.1000	0332.9	102.6	190.4	001.6377	0263.3	051.3	53.32**	6.26
075.0	074.1000	0333.9	102.6	189.5	001.6047	0263.6	052.8	52.59**	4.47
076.0	074.1000	0335.3	102.7	188.7	001.5970	0263.9	054.5	51.93**	2.84
077.0	074.1000	0336.8	102.8	187.9	001.5898	0263.8	056.1	51.26**	1.15
078.0	074.1000	0338.3	102.9	187.2	001.5834	0263.7	057.7	50.58	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
079.0	074.1000	0339.9	103.0	186.5	001.5775	0263.6	059.4	49.90
080.0	074.1000	0341.5	103.1	186.0	001.5722	0263.4	061.1	49.24
081.0	074.1000	0343.0	103.2	185.4	001.5675	0263.3	062.8	48.58
082.0	074.1000	0344.5	103.4	185.0	001.5632	0263.2	064.6	47.95
083.0	074.1000	0346.1	103.5	184.6	001.5595	0263.3	066.3	47.33
084.0	074.1000	0347.5	103.6	184.2	001.5562	0263.5	068.1	46.71
085.0	074.1000	0348.9	103.6	183.9	001.5533	0263.6	069.8	46.10
086.0	074.1000	0350.2	103.7	183.6	001.5508	0263.8	071.6	45.49
087.0	074.1000	0351.7	103.8	183.4	001.5486	0264.0	073.4	44.88
088.0	074.1000	0352.9	103.9	183.2	001.5469	0264.1	075.2	44.27
089.0	074.1000	0354.0	104.0	183.0	001.5454	0264.3	077.0	43.67
090.0	074.1000	0355.1	104.1	182.9	001.5443	0264.4	078.8	43.07
091.0	074.1000	0356.3	104.2	182.8	001.5433	0264.5	080.6	42.48
092.0	074.1000	0357.5	104.2	182.7	001.5426	0264.6	082.5	41.89
093.0	074.1000	0358.8	104.3	182.7	001.5421	0264.7	084.3	41.30
094.0	074.1000	0360.0	104.4	182.6	001.5418	0264.7	086.1	40.72
095.0	074.1000	0361.0	104.5	182.6	001.5418	0264.7	087.9	40.14
096.0	074.1000	0362.3	104.6	182.6	001.5419	0264.7	089.8	39.56
097.0	074.1000	0363.5	104.7	182.7	001.5422	0264.6	091.6	38.98
098.0	074.1000	0364.6	104.7	182.7	001.5427	0264.6	093.4	38.41
099.0	074.1000	0365.4	104.8	182.8	001.5435	0264.5	095.3	37.84
100.0	074.1000	0366.0	104.9	182.9	001.5444	0264.4	097.1	37.27
101.0	074.1000	0366.8	104.9	183.0	001.5455	0264.3	098.9	36.70
102.0	074.1000	0367.5	105.0	183.2	001.5467	0264.1	100.7	36.15
103.0	074.1000	0368.1	105.0	183.3	001.5480	0264.0	102.5	35.60
104.0	074.1000	0368.5	105.0	183.5	001.5496	0263.9	104.4	35.06
105.0	074.1000	0368.8	105.1	183.7	001.5512	0263.7	106.2	34.54
106.0	074.1000	0369.3	105.1	183.9	001.5530	0263.6	108.0	34.04
107.0	074.1000	0369.9	105.1	184.0	001.5547	0263.5	109.8	33.56
108.0	074.1000	0370.6	105.2	184.2	001.5566	0263.4	111.6	33.10
109.0	074.1000	0371.4	105.3	184.5	001.5585	0263.4	113.4	32.67
110.0	074.1000	0371.8	105.3	184.7	001.5605	0263.3	115.2	32.25
111.0	074.1000	0372.1	105.3	184.9	001.5628	0263.2	116.9	31.86
112.0	074.1000	0372.2	105.3	185.2	001.5651	0263.2	118.7	31.47
113.0	074.1000	0372.4	105.3	185.4	001.5675	0263.3	120.5	31.10

N. Lat. = 404243.0 W. Lng. = 740049.0  
 HAAT and Distance to Contour  
 FCC OET,TV 3.2 - 16.1, 130 pts - FCC 30 SEC

WABCTV, American Broadcasting Compan , BLCT19800730KG  
 City Grade Signal Distances to Contour

Azi .	AV EL	HAAT	ERP kW	dBk	Fi el d	77-F(50-50)
000	22.2	479.8	64.6000	18.10	1.000	49.72
010	29.7	472.3	64.6000	18.10	1.000	49.31
020	9.7	492.3	64.6000	18.10	1.000	50.38
030	13.7	488.3	64.6000	18.10	1.000	50.17
040	4.2	497.8	8.1412	9.11	0.355	33.67
050	3.4	498.6	7.6445	8.83	0.344	33.21
060	5.7	496.3	5.5838	7.47	0.294	30.62
070	9.5	492.5	4.6398	6.67	0.268	29.04
080	12.6	489.4	4.8499	6.86	0.274	29.25
090	21.2	480.8	6.1282	7.87	0.308	30.67
100	15.7	486.3	8.7009	9.40	0.367	33.69
110	11.3	490.7	13.9081	11.43	0.464	37.60
120	11.2	490.8	22.0322	13.43	0.584	41.27
130	10.7	491.3	34.8985	15.43	0.735	45.05
140	9.4	492.6	55.2734	17.43	0.925	49.04
150	10.4	491.6	64.6000	18.10	1.000	50.34
160	10.9	491.1	64.6000	18.10	1.000	50.31
170	10.1	491.9	43.0143	16.34	0.816	46.84
180	6.8	495.2	35.6624	15.52	0.743	45.42
190	0.4	501.6	37.8055	15.78	0.765	46.23
200	2.8	499.2	55.9928	17.48	0.931	49.50
210	18.2	483.8	64.6000	18.10	1.000	49.93
220	27.0	475.0	64.6000	18.10	1.000	49.46
230	2.9	499.1	64.6000	18.10	1.000	50.74
240	0.0	502.0	64.6000	18.10	1.000	50.89
250	0.3	501.7	64.6000	18.10	1.000	50.88
260	2.9	499.1	64.6000	18.10	1.000	50.74
270	6.6	495.4	64.6000	18.10	1.000	50.55
280	13.1	488.9	55.6325	17.45	0.928	48.90
290	16.9	485.1	37.6081	15.75	0.763	45.37
300	20.7	481.3	35.5664	15.51	0.742	44.72
310	22.9	479.1	41.8624	16.22	0.805	45.96
320	20.6	481.4	56.1131	17.49	0.932	48.58
330	19.2	482.8	64.6000	18.10	1.000	49.87
340	17.3	484.7	64.6000	18.10	1.000	49.98
350	13.4	488.6	64.6000	18.10	1.000	50.19

Ave EI = 12.04 M HAAT= 489.96 M AMSL= 502 M