

AM Allocation Study

Coordinates : 35-08-31.0 N 90-08-06.0 W
 Frequency : 1180
 Initial PWR: 0.085
 Initial Inv Field: 99.61 mV/m

NIGHTTIME LIMIT STUDY: Prop. WPLX, Germantown, TN

SITE INFO		ST	DIST	CLASS	SLANT	DIST	GEOMAG	MID	AZIMUTH	GND	RAD	MIN	ELEV	MAX	ELEV	MAX	RAD	SWAVE	FLD	LIMITATION	50%	RSS	25%	RSS
CALL	FRQ	COUNTRY	CITY	NY	1385.0	A	1399.3	50.3	234.6	2662.9	2.8	6.7	2650.8	0.021677	11.492	11.492	11.492	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WHAM	1180	US	ROCHESTER	2886.5	B	2893.4	33.5	346.6	978.6	0.0	0.0	0.0	978.6	0.009868	1.931	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TIQ	1180	CS	LIMON	3571.1	B	3576.7	32.6	333.2	1384.0	0.0	0.0	0.0	1384.0	0.006864	1.900	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
HJCK	1180	CO	BUCARAMANGA	3394.2	B	3400.1	34.1	328.4	978.6	0.0	0.0	0.0	978.6	0.007155	1.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
YVWJ	1180	VE	BACHAQUERO	7880.2	A	7882.8	12.2	343.2	2675.1	0.0	0.0	0.0	2675.1	0.002311	1.237	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CB 1	1180	CI	SANTIAGO 6	MS	316.5	B	374.4	44.3	359.7	15.5	23.7	36.3	27.3	0.203342	1.109	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WJNT	1180	US	PEARL																					

Nighttime Interference-free 50% RSS at Proposed WPLX Site: 11.492 mV/m

Interference Contributor(s): WHAM=11.492 mV/m

Nighttime 25% RSS at Proposed WPLX Site:

11.492 mV/m

Interference Contributor(s): WHAM=11.492 mV/m

NIGHTTIME PROTECTION STUDY - PROPOSED WPLX

STATION WPLX-App. LOCATION Germantown, TN SITE: N 35-08-31 W 90-08-06 DATE 03-09-06

Call	Latitude	Longitude	Dist(km)	Bear(°T)	RSS	Req-Pro	θmin	θmax	MPL	SWF	Max mv/m @ θ
WHAM - 1180 kHz.:	Skywave		Contour	Points:							
166.1°	35-45-14	75-29-50	1326.3	82.82	----	0.500	3.2	7.2		25.723	97.2
170°	35-38-31	76-07-02	1270.6	83.43	----	0.500	3.6	7.8		28.869	86.6
180°	35-30-38	77-43-30	1125.7	84.33	----	0.500	4.7	9.4		35.622	70.2
190°	35-37-11	79-20-14	979.7	83.77	----	0.500	6.1	11.5		44.781	55.8
200°	35-58-01	80-53-47	840.4	81.06	----	0.500	7.8	14.0		56.948	43.9
205°	36-13-30	81-38-23	776.3	78.62	----	0.500	8.8	15.4		64.176	38.9
210°	36-32-05	82-21-05	718.2	75.29	----	0.500	9.7	16.8		71.994	34.7
215°	36-53-42	83-01-18	668.5	70.98	----	0.500	10.6	18.2		79.709	31.4
220°	37-18-00	83-38-57	629.1	65.69	----	0.500	11.5	19.4		86.739	28.8
225°	37-44-42	84-13-35	602.6	59.57	----	0.500	12.1	20.3		91.963	27.2
230°	38-13-33	84-45-00	589.8	52.88	----	0.500	12.4	20.7		94.412	26.5
235°	38-44-20	85-12-47	592.5	46.10	----	0.500	12.3	20.6		93.497	26.7
240°	39-16-35	85-37-02	609.2	39.69	----	0.500	11.9	20.0		89.549	27.9
250°	40-24-23	86-13-35	678.5	29.23	----	0.500	10.4	17.9		75.859	33.0
260°	41-34-28	86-33-27	780.0	22.47	----	0.500	8.7	15.3		60.572	41.3
270°	42-46-05	86-12-29	913.0	20.61	----	0.500	6.9	12.6		46.231	54.1
280°	43-51-25	86-23-29	1020.5	17.17	----	0.500	5.7	10.9		37.636	66.4
290°	44-54-12	85-54-45	1142.8	16.99	----	0.500	4.6	9.2		30.189	82.8
300°	45-44-15	84-51-15	1259.2	19.09	----	0.500	3.7	7.9		24.762	101.0
KYET	35-15-38	112-10-55	1998.8	276.78	8.277	2.069	0.0	2.3		13.298	777.9
KYET-A	35-15-38	112-10-55	1998.8	276.78	8.277	2.069	0.0	2.3		13.298	777.9
KERI	35-34-17	119-19-26	2637.4	279.58	7.639	1.910	0.0	0.0		7.671	1244.9
WJNT	32-17-43	90-06-54	316.5	179.66	9.496	2.374	23.7	36.3		203.342	58.4
KOFI	48-11-52	114-15-03	2456.2	313.60	2.048	0.512	0.0	0.0		6.091	420.3
KYDZ	41-16-12	95-47-10	841.0	325.79	8.285	2.071	7.8	14.0		54.510	190.0
KGOL	30-08-21	95-17-24	736.2	222.37	10.042	2.511	9.4	16.3		72.458	173.3
KGOL-A	30-08-21	95-17-24	736.2	222.37	10.042	2.511	9.4	16.3		72.458	173.3
KLAY	47-09-00	122-24-38	2985.2	306.48	13.523	3.381	0.0	0.0		4.043	4181.3
Marathon	24-41-56	81-05-19	1450.3	140.74	11.439	2.860	2.4	6.1		25.897	552.2
Baxter CP	46-15-11	94-19-41	1284.4	345.38	8.372	2.093	3.5	7.6		24.015	435.8

[illegible]

Call	Latitude	Longitude	Dist(km)	Bear(°T)	RSS	Req-Pro	θmin	θmax	MPL	SWF	Max mv/m @ θ
1170	Adjacent	Frequency	Prot:								
KFAQ	1170 kHz.	Groundwave	Contour	Points:							
Pt.A	38-03-25	96-28-23	651.8	301.67	----	0.500	11.0	18.7		82.663	302.4
Pt.B	37-03-46	95-34-55	533.8	295.17	----	0.500	13.9	22.9		109.523	228.3
Pt.C	36-25-30	95-26-05	498.8	288.16	----	0.500	15.0	24.5		120.021	208.3
Pt.D	36-01-30	95-13-00	469.8	283.53	----	0.500	16.0	25.9		129.674	192.8
Pt.E	35-42-51	95-00-00	445.3	279.62	----	0.500	16.9	27.2		138.692	180.3
Pt.F	35-05-09	94-46-31	422.0	270.49	----	0.500	17.9	28.6		148.167	168.7
Pt.G	34-47-43	94-53-50	435.5	266.29	----	0.500	17.3	27.8		142.816	175.1
Pt.H	34-30-05	95-05-40	458.2	262.50	----	0.500	16.4	26.5		134.416	186.0
Pt.I	34-07-52	96-10-59	564.5	260.25	----	0.500	13.0	21.7		103.046	242.6
Pt.J	34-23-56	97-19-26	661.6	264.89	----	0.500	10.8	18.4		82.806	301.9
Pt.K	34-52-18	97-43-34	691.8	269.69	----	0.500	10.2	17.5		77.525	322.5
Pt.L	35-45-49	98-23-14	750.3	277.67	----	0.500	9.2	16.0		68.505	364.9
Pt.M	36-48-12	98-29-21	773.8	286.24	----	0.500	8.8	15.4		64.939	385.0
Pt.N	37-56-50	97-48-58	753.3	296.70	----	0.500	9.1	15.9		66.947	373.4
WWVA	1170 kHz.	Groundwave	Contour	Points:							
Pt.A	39-35-10	79-23-25	1069.3	59.31	----	0.500	5.3	10.2		36.854	678.4
Pt.B	39-14-45	80-05-18	999.1	59.87	----	0.500	5.9	11.2		41.551	601.7
Pt.C	39-33-15	81-00-00	944.0	56.00	----	0.500	6.5	12.1		45.491	549.6
Pt.D	40-02-03	81-15-13	952.2	52.54	----	0.500	6.4	11.9		44.580	560.8
Pt.E	40-25-12	81-21-53	967.8	50.08	----	0.500	6.3	11.7		43.167	579.2
Pt.F	41-02-24	81-18-47	1011.9	46.99	----	0.500	5.8	11.0		39.696	629.8
Pt.G	41-19-40	80-52-02	1061.0	46.84	----	0.500	5.3	10.3		36.430	686.2
KLOK	37-18-41	121-48-58	2838.3	284.25	11.054	2.705	0.0	0.0		6.320	21400.3
WAVS	26-04-39	80-13-03	1382.7	134.08	9.340	2.335	2.8	6.7		27.750	4207.2
KJOC	41-23-21	90-31-00	695.4	357.37	2.904	0.726	10.1	17.4		72.672	499.5
KPUG	48-46-34	122-26-21	3038.0	309.90	4.619	1.155	0.0	0.0		3.596	16059.5
WLEO	17-58-52	66-36-51	3004.0	123.32	5.044	1.261	0.0	0.0		7.610	8285.2
-CP:	17-58-52	66-36-49	3004.0	123.32	5.044	1.261	0.0	0.0		7.609	8286.2
WACV	32-27-16	86-17-21	464.2	128.98	4.915	1.194	16.2	26.2		132.721	449.8
KCBQ	32-50-23	116-59-31	2481.4	271.81	12.704	3.176	0.0	0.0		9.145	17364.7
-APP:	32-53-42	116-55-31	2473.9	271.92	12.378	3.095	0.0	0.0		9.190	16839.0
NEWcp -Bend	44-04-47	121-16-59	2826.4	300.05	8.430	2.108	0.0	0.0		5.189	20312.2

NIGHTTIME PROTECTION STUDY - PROPOSED WPLX

STATION WPLX-App. LOCATION Germantown, TN SITE: N 35-08-31 W 90-08-06 DATE 03-09-06

Call	Latitude	Longitude	Dist(km)	Bear(°T)	RSS	Req-Pro	θmin	θmax	MPL	SWF	Max mv/m @ θ
1190	Adjacent	Frequency	Prot:								
WOWO	40-59-47	85-21-06	773.6	31.30	4.019	1.005	8.8	15.4		61.708	814.3
-App:	40-59-44	85-21-11	773.5	31.30	4.018	1.005	8.8	15.4		61.726	814.1
KNUV	33-26-42	112-15-54	2037.2	271.05	6.009	1.502	0.0	2.1		13.216	5682.5
-App:	33-26-42	112-15-54	2037.2	271.05	6.009	1.502	0.0	2.1		13.216	5682.5
KXMX	33-56-42	117-51-44	2534.5	275.03	7.919	1.980	0.0	0.0		8.593	11521.0
WPSP	26-49-01	80-15-07	1319.2	131.84	10.288	2.513	3.3	7.3		29.832	4211.9
KPHN	39-03-49	94-30-37	583.5	319.64	4.924	1.231	12.5	21.0		95.840	642.2
-CP:	39-03-49	94-30-37	583.5	319.64	4.924	1.231	12.5	21.0		95.840	642.2
WBMJ	18-21-00	66-06-50	3014.0	122.02	14.291	3.573	0.0	0.0		7.488	23858.2
KFXR	32-53-57	96-24-47	629.8	248.46	6.487	1.622	11.5	19.4		89.269	908.5
WLIB	40-47-48	74-06-06	1536.4	61.09	7.498	1.875	1.9	5.4		18.584	5044.7
-App:	40-47-48	74-06-06	1536.4	61.09	7.498	1.875	1.9	5.4		18.584	5044.7
WAFS	33-47-35	84-31-14	536.0	104.64	21.612	5.403	13.8	22.8		110.088	2453.9
WBIS											
-CP:	39-24-29	76-46-32	1271.9	64.17	18.979	4.745	3.6	7.8		27.209	8719.5

PROPOSED WPLX, Germantown, TN

NIGHTTIME PROTECTION STUDY TO PENDING PROPOSALS

Freq. Call	City/State	FCC File No.	Fac.ID	Dist. km.	Bear. °T	θMin (Deg)	θMax (Deg)	25% RSS mV/m	Req'd. mV/m	Prop.mV/m @ Theta	Prop.Limit mV/m
1180 NEW	Pace, FL	BNP-20000201AEK	122450	574.1	150.08	12.8	21.3	12.230	3.004	79.77	1.622
1180 NEW	Lizella, GA	BNP-20000201AEX	122480	636.9	112.31	11.3	19.1	14.252	3.563	69.61	1.219
1180 NEW	Havana, FL	BP-19960805AA	82850	735.1	131.44	9.4	16.3	11.657	2.914	83.14	1.200
1180 NEW	Truckee, CA	BNP-20000201AFK	122501	2686.9	288.94	0.0	0.0	11.618	2.905	167.44	0.225
1180 NEW	Jacksonville, OR	BNP-20010723ABC	135960	2923.4	295.67	0.0	0.0	13.844	3.461	158.50	0.162
1180 NEW	Jacksonville, OR	BNP-20000131ABP	122581	2923.4	295.67	0.0	0.0	13.844	3.461	158.50	0.162
1180 NEW	Baxter, MN	BNP-20020508AAN	136921	1284.4	345.38	3.5	7.6	8.372	2.093	60.53	0.291
1180 NEW	Curlew, FL	BNP-20040126AKE	160390	1059.5	135.71	5.3	10.3	10.842	2.711	86.24	0.727
1180 NEW	Odessa, TX	BNP-20040126AMH	160336	1172.4	255.63	4.4	8.9	11.416	2.854	181.04	1.278
1180 NEW	Reno, NV	BNP-20040127AAR	160544	2644.4	289.52	0.0	0.0	11.935	2.984	166.74	0.231
1180 NEW	Casper, WY	BNP-20040127ANJ	160694	1635.3	306.38	1.3	4.6	7.369	1.842	140.37	0.469
1180 NEW	Las Cruces, NM	BNP-20040127ANN	160698	1568.8	263.17	1.7	5.1	8.396	2.099	183.13	0.788
1180 NEW	Walsenburg, CO	BNP-20040129AFT	160604	1336.0	286.36	3.1	7.1	9.660	2.415	169.72	0.903
1180 NEW	Cache, OK	BNP-20040130AFP	161295	776.5	268.23	8.7	15.4	14.974	3.706	177.37	2.238
1180 NEW	Gainesville, FL	BNP-20040130BFF	161260	943.5	127.70	6.5	12.1	11.533	2.883	82.88	0.829
1170 NEW	Newport, OR	BNP-20040129AUA	161107	3045.2	300.60	0.0	0.0	14.087	3.522	150.75	0.013a
1170 NEW	Veradale, WA	BNP-20040130BPC	161246	2630.2	310.10	0.0	0.0	10.223	2.556	133.23	0.014a
1190 NEW	Amarillo, TX	BNP-20040126AJL	160475	1063.2	272.54	5.3	10.3	9.620	2.405	179.04	0.144a
1190 NEW	Winchester, NV	BNP-20040126AJZ	160402	2249.0	280.64	0.0	1.0	11.838	2.960	175.75	0.037a
1190 NEW	Georgiana, AL	BNP-20040129AHA	160699	498.6	139.81	15.0	24.5	12.521	3.130	80.33	0.195a

(cont.)

PROPOSED WPLX, Germantown, TN

NIGHTTIME PROTECTION STUDY TO PENDING PROPOSALS

Freq. Call	City/State	FCC File No.	Fac.ID	Dist. km.	Bear. °T	θMin (Deg)	θMax (Deg)	25% RSS mV/m	Req'd. mV/m	Prop.mV/m @ Theta	Prop.Limit mV/m
1190 NEW	Waterford, PA	BNP-20040129AKX	161049	1157.7	45.97	4.5	9.0	16.117	4.029	21.51	0.013a
1190 NEW	Blandsville, IL	BNP-20040129AME	160377	602.8	354.10	12.1	20.3	6.665	1.666	47.27	0.085a
1190 NEW	Overton, NV	BNP-20040129ACS	160774	2197.4	281.08	0.0	1.2	11.336	2.834	175.39	0.038a
1190 NEW	Paradise, NV	BNP-20040129ATL	160233	2266.1	279.78	0.0	0.9	11.581	2.895	176.44	0.036a
1190 NEW	Du Bois, PA	BNP-20040129AUV	160302	1193.0	52.64	4.2	8.6	14.060	3.515	19.53	0.012a
1190 NEW	Red Oak, NC	BNP-20040130AHS	161267	1105.9	81.23	4.9	9.7	15.409	3.852	40.27	0.029a
1190 NEW	Pine Bluff, AR	BNP-20040130ARB	161393	199.2	240.87	35.4	49.7	6.515	1.629	104.28	0.624a
1190 NEW	Nellis, AFB	BNP-20040130BCW	161247	2271.1	279.47	0.0	0.9	11.373	2.843	176.68	0.036a
1190 NEW	Sherwood, AR	BNP-20040130BQR	161498	197.6	257.87	35.6	50.0	6.193	1.548	110.59	0.666a
1190 KRFT	University City, MO	BMJP-20040130AQS	5281	366.6	358.04	20.6	32.3	4.961	1.240	39.23	0.135a
1190 KRFT	University City, MO	BMJP-20051031AEJ	5281	366.6	358.04	20.6	32.3	4.961	1.240	39.23	0.135a
1190 NEW	Pine Bluff, AR	BNP-20051031ADR	161393	199.2	240.87	35.4	49.7	6.515	1.629	104.28	0.624a

Key: a : Adjacent frequency protection; 1170 kHz. and 1190 kHz.

AM Allocation Study NIGHTTIME LIMIT STUDY: WJNT, Pearl, MS

Coordinates : 32-17-43.0 N 90-06-54.0 W
 Frequency : 1180
 Initial PWR: 0.500
 Initial Inv Field: 214.41 mV/m

SITE INFO		CITY	ST	DIST	CLASS	SLANT	DIST	GEOMAG	MID	AZIMUTH	GND	RAD	MTN	ELEV	MAX	ELEV	MAX	RAD	SWAVE	FLD	LIMITATION	50% RSS	25% RSS
CALL	FRQ	COUNTRY	NY	1617.1	A	1629.4		48.9		226.2	2662.9		1.4	4.8	2659.7			0.017243	9.172		9.172	9.172	
WHAM	1180	US	ROCHESTER																				
TIQ	1180	CS	LIMON	2583.3	B	2591.1		32.1		344.7	978.6		0.0	0.0	978.6			0.012557	2.458		0.000	9.496	
HJCK	1180	CO	BUCARAMANGA	3309.0	B	3315.0		31.1		330.1	1384.0		0.0	0.0	1384.0			0.008285	2.293		0.000	0.000	
WPLX	1180	US	GERMANTOWN	316.5	D	374.4		44.3		179.7	69.4		23.7	36.3	55.8			0.203342	2.269		0.000	0.000	
YVJ	1180	VE	BACHAQUERO	3153.2	B	3159.5		32.7		324.6	978.6		0.0	0.0	978.6			0.008627	1.688		0.000	0.000	

Nighttime 25% RSS at WJNT Site:

9.496 mV/m

Interference Contributors:

WHAM=9.172 mV/m
 TIQ =2.458 mV/m

Required Protection from Modified WPLX:

2.374 mV/m

AM Allocation Study NIGHTTIME LIMIT STUDY: KGOL, Humble, TX

Coordinates : 30-08-21.0 N 95-17-24.0 W
 Frequency : 1180
 Initial PWR: 1.000
 Initial Inv Field: 318.70 mV/m

SITE INFO			ST DIST	CLASS	SLANT DIST	GEOMAG MID	AZIMUTH	GND RAD	MIN ELEV	MAX ELEV	MAX RAD	SWAVE FLD	LIMITATION	50% RSS	25% RSS
CALL	FRQ	COUNTRY													
WJNT	1180	US	PEARL	MS 547.2	B	582.6	41.6	245.4	302.7	13.5	22.4	295.9	0.108859	6.441	6.441
WHAM	1180	US	ROCHESTER	NY 2119.7	A	2129.1	47.7	233.0	2662.9	0.0	1.6	2662.9	0.010673	5.684	8.591
KFAQ	1170	US	TULSA	OK 669.7	A	698.9	43.2	175.7	2991.3	10.6	18.1	2740.3	0.082672	4.531	9.713
TTIQ	1180	CS	LIMON	2574.3	B	2582.1	30.9	332.2	978.6	0.0	0.0	978.6	0.013042	2.553	10.042
KYDZ	1180	US	BELLEVUE	NE 1238.3	B	1254.4	45.8	177.8	395.2	3.8	8.1	393.1	0.030884	2.428	0.000
HJGK	1180	CO	BUCARAMANGA	3452.9	B	3458.7	30.0	320.8	1384.0	0.0	0.0	1384.0	0.007904	2.188	0.000
XE	1180	MX	RIO GRANDE	ZA 1039.4	B	1058.5	36.8	45.9	215.1	5.5	10.6	213.6	0.048390	2.067	0.000
WPLX	1180	US	GERMANTOWN	TN 736.1	D	762.8	43.0	222.4	145.6	9.4	16.3	140.6	0.072458	2.038	0.000
YVYJ	1180	VE	BACHAQUERO	3357.6	B	3363.5	31.6	315.3	978.6	0.0	0.0	978.6	0.007938	1.554	0.000
CB 1	1180	CI	SANTIAGO 6	7518.5	A	7521.1	9.5	337.1	2675.1	0.0	0.0	2675.1	0.002619	1.401	0.000

Nighttime 25% RSS at KGOL Site:

10.042 mV/m

Interference Contributors: WJNT=6.441 mV/m
 WHAM=5.684 mV/m
 KFAQ=4.531 mV/m
 TIQ =2.553 mV/m

Required Protection from Modified WPLX:

2.511 mV/m

AM Allocation Study NIGHTTIME LIMIT STUDY: KYDZ, Bellevue, NE

Coordinates : 41-16-12.0 N 95-47-10.0 W
 Frequency : 1180
 Initial PWR: 1.000
 Initial Inv Field: 331.50 mV/M

SITE INFO		COUNTRY	CITY	ST	DIST	CLASS	SLANT	DIST	GEOMAG	MID	AZIMUTH	GND	RAD	MIN	ELEV	MAX	ELEV	MAX	RAD	SWAVE	FLD	LIMITATION	50% RSS	25% RSS
CALL	FRQ																							
WHAM	1180	US	ROCHESTER	NY	1498.7	A	1512.0	53.3	268.4	2662.9	2.1	5.7	2656.1	0.015597	8.285	8.285	50%							
KFAQ	1170	US	TULSA	OK	569.6	A	603.7	48.7	0.2	758.4	12.9	21.5	694.2	0.097203	1.350	0.000	0.000	25%						
HJGK	1180	CO	BUCARAMANGA		4412.0	B	4416.5	35.7	333.0	1384.0	0.0	0.0	1384.0	0.003988	1.104	0.000	0.000							
TTQ	1180	CS	LIMON		3694.6	B	3700.0	36.5	342.4	978.6	0.0	0.0	978.6	0.005511	1.079	0.000	0.000							
WPLX	1180	US	GERMANTOWN	TN	841.0	D	864.4	48.6	325.8	99.4	7.8	14.0	97.1	0.054510	1.058	0.000	0.000							
CB 1	1180	CI	SANTIAGO 6		8685.5	A	8687.8	15.2	341.0	2675.1	0.0	0.0	2675.1	0.001803	0.965	0.000	0.000							

Nighttime 25% RSS at KYDZ Site:

8.285 mV/m

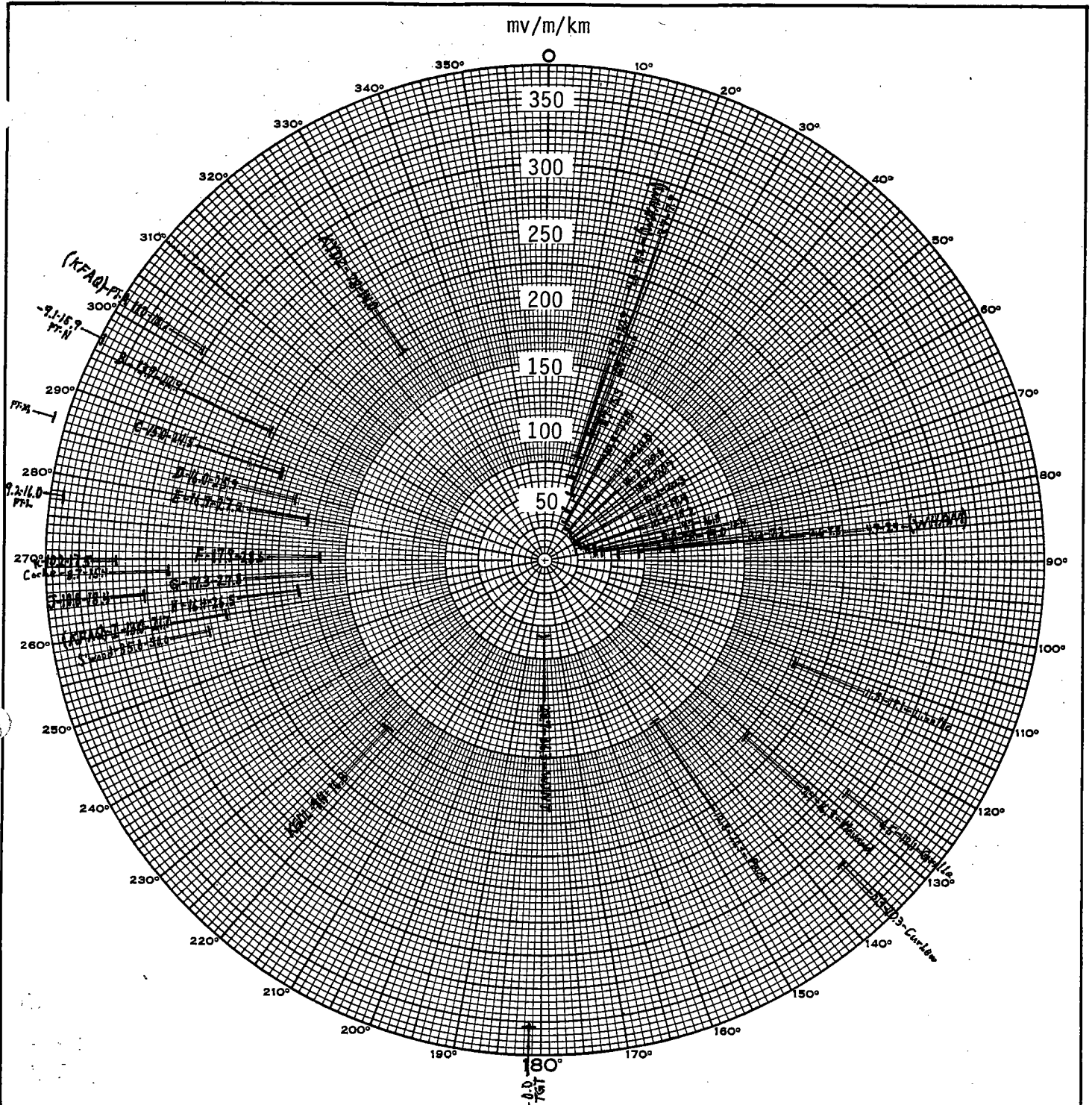
Interference Contributor(s):

WHAM=8.285 mV/m

Required Protection from Modified WPLX:

2.071 mV/m

FIGURE 16D



NIGHTTIME PROTECTION CONSTRAINTS

STATION	WPLX
LOCATION	Germantown, TN
FREQUENCY	1180 kHz.
POWER	---
LATITUDE	N 35° 08' 31"
LONGITUDE	W 90° 09" 06"
MODE	---
PATTERN	---
DATE	03-09-06

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TRUMANSBURG, NEW YORK

INDEPENDENT BCST CONSULTANTS, INC.
TRUMANSBURG, NEW YORK

NO. OF TOWERS: THREE

MODE: NIGHTTIME

POWER: 85 WATTS

DATE: 03-23-06

TOWER NO.		HEIGHT {DEG}	{FT}	{M}	FIELD	SPACING {DEG}	{FT}	{M}	BEARING {DEG T}	PHASING {DEG}
1	*	97.2	225.0	68.6	0.590	0.0	0.0	0.0	0.0	-121.5
2		116.6	270.0	82.3	1.000	72.7	168.4	51.3	55.0	0.0
3	**	84.2	195.0	59.4	0.605	155.0	358.9	109.4	83.0	+137.0

* TOWER No. 1 TOP-LOADED WITH 11.8 DEGREES AT UPPERMOST GUY CABLES
FOR A TOTAL ELECTRICAL HEIGHT OF 109.0 DEGREES.

** TOWER No. 3 TOP-LOADED WITH 24.8 DEGREES AT UPPERMOST GUY CABLES
FOR A TOTAL ELECTRICAL HEIGHT OF 109.0 DEGREES.

THEOR. VECTOR CONSTANT WITH 1 OHM LOSS/TOWER: 100.272 MV/M/KM

THEOR. HORIZ. PLANE RMS WITH 1 OHM LOSS/TOWER: 99.607 MV/M/KM

THEOR. RSS WITH 1 OHM LOSS/TOWER: 131.281 MV/M/KM

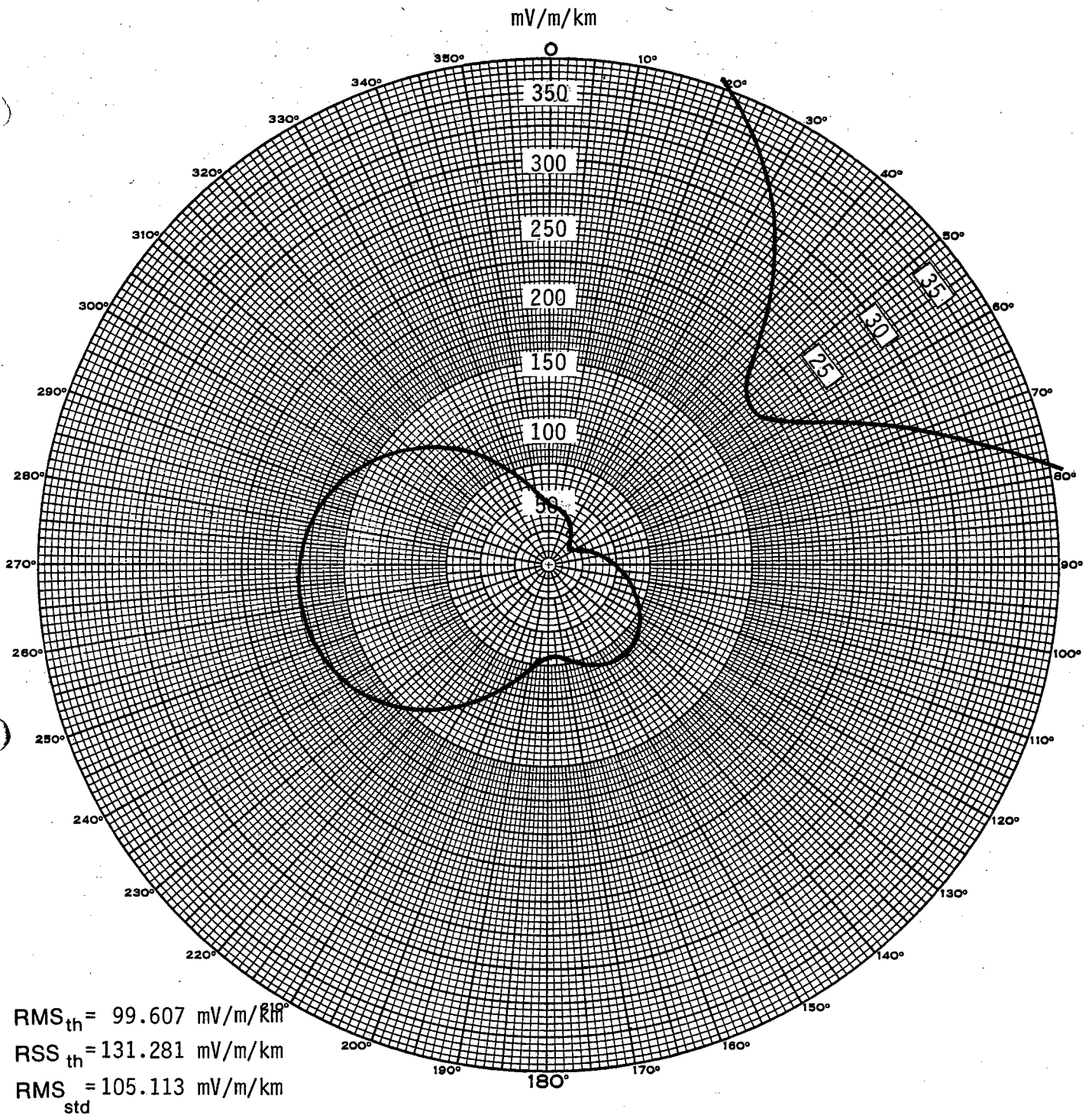
Q: 10.0

RMS OF STANDARD PATTERN: 105.113 MV/M/KM

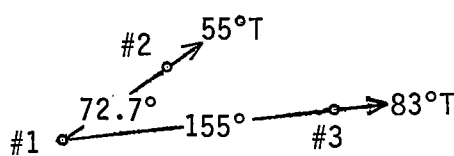
COMPUTED RADIATION VALUES ARE IN TERMS OF MV/M AT ONE KILOMETER.

F.C.C. STANDARD HORIZONTAL PLANE RADIATION

TRUE BEARING DEGREES	FIELD MV/M	TRUE BEARING DEGREES	FIELD MV/M	TRUE BEARING DEGREES	FIELD MV/M	TRUE BEARING DEGREES	FIELD MV/M
.0	45.945	90.0	49.800	180.0	69.538	270.0	181.980
5.0	43.598	95.0	55.089	185.0	72.730	275.0	179.676
10.0	41.852	100.0	60.315	190.0	78.851	280.0	176.270
15.0	40.166	105.0	65.422	195.0	87.370	285.0	171.762
20.0	38.148	110.0	70.330	200.0	97.520	290.0	166.159
25.0	35.589	115.0	74.924	205.0	108.536	295.0	159.474
30.0	32.460	120.0	79.060	210.0	119.777	300.0	151.742
35.0	28.899	125.0	82.569	215.0	130.740	305.0	143.027
40.0	25.213	130.0	85.274	220.0	141.056	310.0	133.432
45.0	21.910	135.0	87.003	225.0	150.462	315.0	123.108
50.0	19.720	140.0	87.615	230.0	158.787	320.0	112.263
55.0	19.390	145.0	87.025	235.0	165.929	325.0	101.163
60.0	21.163	150.0	85.235	240.0	171.839	330.0	90.135
65.0	24.595	155.0	82.371	245.0	176.506	335.0	79.558
70.0	29.032	160.0	78.725	250.0	179.945	340.0	69.846
75.0	33.992	165.0	74.801	255.0	182.183	345.0	61.406
80.0	39.192	170.0	71.338	260.0	183.251	350.0	54.565
85.0	44.487	175.0	69.272	265.0	183.176	355.0	49.460



PROPOSED WPLX NIGHTTIME HORIZONTAL PLANE STANDARD PATTERN



Theoretical Specs:

Twr. Ratio/Phase

#1 0.590/-121.5°

#2 1.000/±0°

#3 0.605/+137.0°

$G_1 = 97.2^\circ + 11.8^\circ \text{ TL}$

$G_2 = 116.6^\circ \text{ (no T.L.)}$

$G_3 = 84.2^\circ + 24.8^\circ \text{ TL}$

STATION	WPLX
LOCATION	Germantown, TN
FREQUENCY	1180 kHz.
POWER	85 watts
LATITUDE	N 35° 08' 31"
LONGITUDE	W 90° 09' 06"
MODE	Nighttime
PATTERN	368012-N-P
DATE	03-23-06

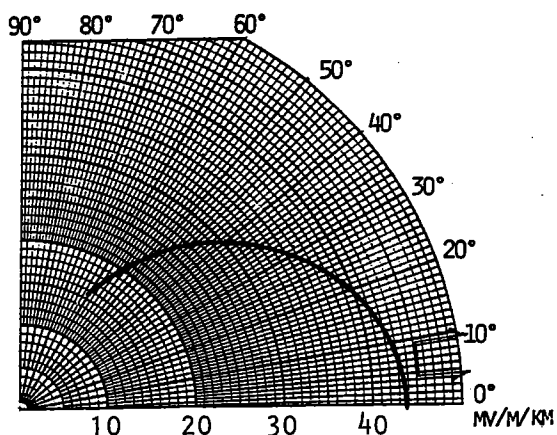
INDEPENDENT BROADCAST CONSULTANTS
TRUMANSBURG, NEW YORK

TRUE BEARING DEGREES	FCC STD. RAD. {AT 1 KM} AT VERTICAL ANGLES THETA {DEGREES}						
	.00 MV/M	5.00 MV/M	10.00 MV/M	15.00 MV/M	20.00 MV/M	25.00 MV/M	30.00 MV/M
84.33	43.77	43.51	42.72	41.48	39.84	37.86	35.59
81.06	40.31	40.08	39.41	38.35	36.96	35.29	33.35
78.62	37.74	37.54	36.96	36.04	34.84	33.40	31.71
75.29	34.29	34.13	33.67	32.96	32.03	30.90	29.56
70.98	29.97	29.88	29.59	29.15	28.58	27.87	26.96
65.69	25.16	25.14	25.08	24.99	24.85	24.61	24.18
52.88	19.27	19.36	19.60	19.95	20.29	20.50	20.45
39.69	25.44	25.34	25.05	24.53	23.80	22.83	21.60
29.23	32.98	32.69	31.86	30.51	28.71	26.54	24.07
22.47	36.96	36.58	35.48	33.72	31.38	28.59	25.49
20.61	37.87	37.47	36.31	34.45	32.00	29.07	25.82
16.99	39.42	38.99	37.73	35.72	33.07	29.92	26.44
295.17	159.23	157.71	153.23	146.00	136.37	124.78	111.74
288.16	168.35	166.75	162.04	154.43	144.29	132.06	118.30
283.53	173.20	171.56	166.73	158.93	148.51	135.96	121.81
279.62	176.57	174.90	169.98	162.04	151.44	138.66	124.24
270.49	181.80	180.09	175.04	166.88	155.98	142.82	127.99
266.29	182.97	181.25	176.16	167.94	156.97	143.72	128.78
262.50	183.35	181.63	176.52	168.27	157.26	143.98	128.99
260.25	183.27	181.54	176.43	168.18	157.16	143.87	128.89
179.66	69.43	68.76	66.80	63.65	59.48	54.49	48.93
325.79	99.41	98.45	95.64	91.11	85.08	77.86	69.77
222.37	145.64	144.20	139.97	133.16	124.11	113.28	101.16
150.08	85.20	84.35	81.85	77.83	72.50	66.14	59.06

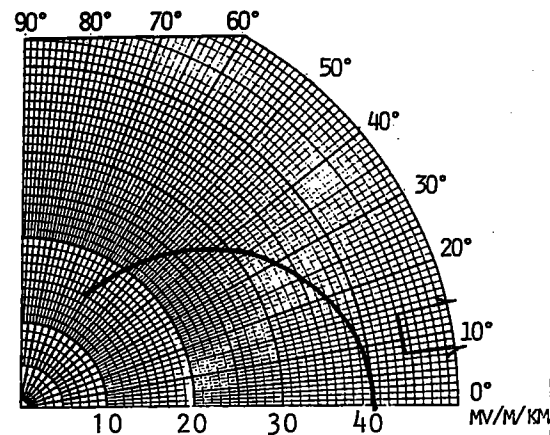
INDEPENDENT BCST CONSULTANTS, INC.

TRUMANSBURG, NEW YORK

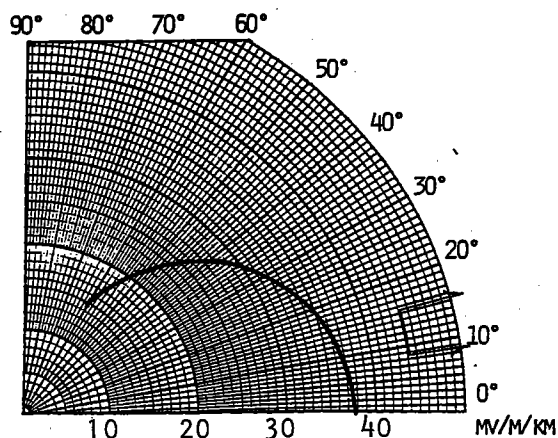
TRUE BEARING DEGREES	FCC STD. RAD. {AT 1 KM } AT VERTICAL ANGLES THETA {DEGREES}					
	35.00 MV/M	40.00 MV/M	45.00 MV/M	50.00 MV/M	55.00 MV/M	60.00 MV/M
84.33	33.01	30.11	26.89	23.35	19.57	15.67
81.06	31.12	28.57	25.68	22.43	18.89	15.19
78.62	29.75	27.46	24.79	21.75	18.39	14.83
75.29	27.94	25.98	23.61	20.83	17.70	14.33
70.98	25.76	24.19	22.17	19.70	16.82	13.68
65.69	23.42	22.24	20.57	18.39	15.78	12.87
52.88	20.01	19.10	17.69	15.79	13.51	10.99
39.69	20.09	18.30	16.24	13.97	11.57	9.17
29.23	21.39	18.59	15.75	12.96	10.31	7.89
22.47	22.20	18.86	15.59	12.50	9.70	7.28
20.61	22.40	18.94	15.58	12.42	9.59	7.16
16.99	22.79	19.13	15.61	12.35	9.45	7.02
295.17	97.81	83.55	69.46	56.03	43.64	32.59
288.16	103.58	88.48	73.56	59.31	46.15	34.42
283.53	106.67	91.12	75.75	61.06	47.50	35.40
279.62	108.81	92.95	77.27	62.28	48.43	36.08
270.49	112.09	95.75	79.58	64.12	49.83	37.09
266.29	112.77	96.33	80.04	64.48	50.10	37.28
262.50	112.94	96.45	80.13	64.54	50.14	37.30
260.25	112.83	96.35	80.04	64.45	50.07	37.25
179.66	43.05	37.07	31.21	25.65	20.53	15.94
325.79	61.16	52.38	43.73	35.49	27.90	21.12
222.37	88.30	75.21	62.40	50.26	39.15	29.31
150.08	51.56	43.95	36.51	29.48	23.05	17.36



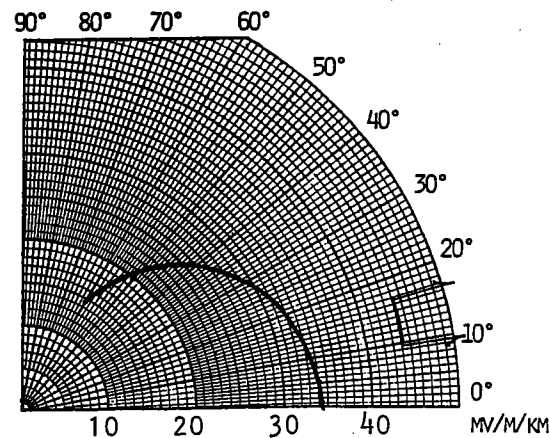
FROM:	Prop. WPLX
TO:	WHAM-180°
BEARING (°T)	84.33°T
DISTANCE (KM)	1125.7 km.
MIDPOINT LAT.(°)	---
θ MIN - θ MAX (°)	4.7°-9.4°
HORIZONTAL RAD.	43.77 mV/m/km
MAX. RAD. AT θ	43.54 mV/m/km
SKYWAVE FACTOR	35.622 uV/m
LIMIT	0.310 mV/m



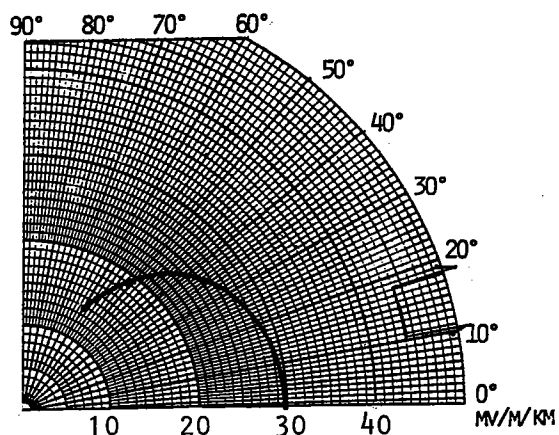
FROM:	Prop. WPLX
TO:	WHAM-200°
BEARING (°T)	81.06°T
DISTANCE (KM)	840.4 km.
MIDPOINT LAT.(°)	---
θ MIN - θ MAX (°)	7.8°-14.0°
HORIZONTAL RAD.	40.31 mV/m/km
MAX. RAD. AT θ	39.76 mV/m/km
SKYWAVE FACTOR	56.948 uV/m
LIMIT	0.453 mV/m



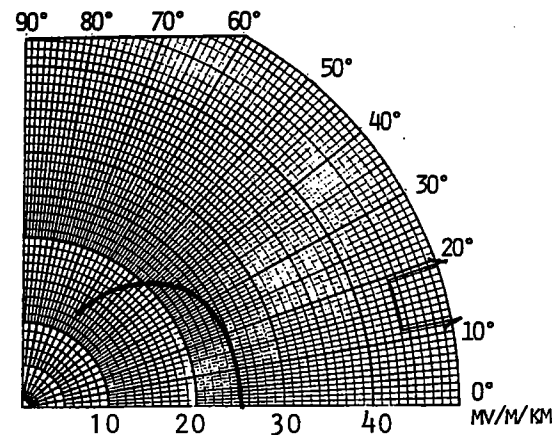
FROM:	Prop. WPLX
TO:	WHAM-205°
BEARING (°T)	78.62°T
DISTANCE (KM)	776.3 km.
MIDPOINT LAT.(°)	---
θ MIN - θ MAX (°)	8.8°-15.4°
HORIZONTAL RAD.	37.74 mV/m/km
MAX. RAD. AT θ	37.13 mV/m/km
SKYWAVE FACTOR	64.176 uV/m
LIMIT	0.477 mV/m



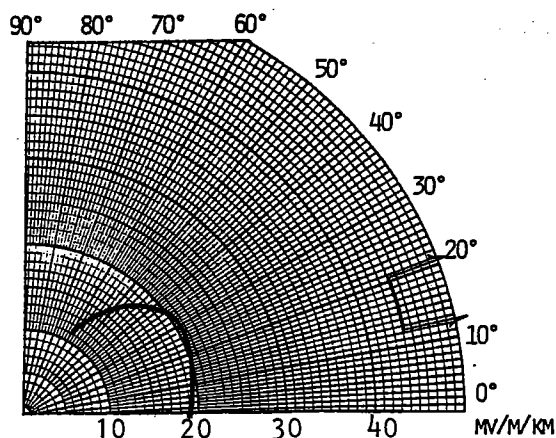
FROM:	Prop. WPLX
TO:	WHAM-210°
BEARING (°T)	75.29°T
DISTANCE (KM)	718.2 km.
MIDPOINT LAT.(°)	---
θ MIN - θ MAX (°)	9.7°-16.8°
HORIZONTAL RAD.	34.29 mV/m/km
MAX. RAD. AT θ	33.71 mV/m/km
SKYWAVE FACTOR	71.994 uV/m
LIMIT	0.485 mV/m



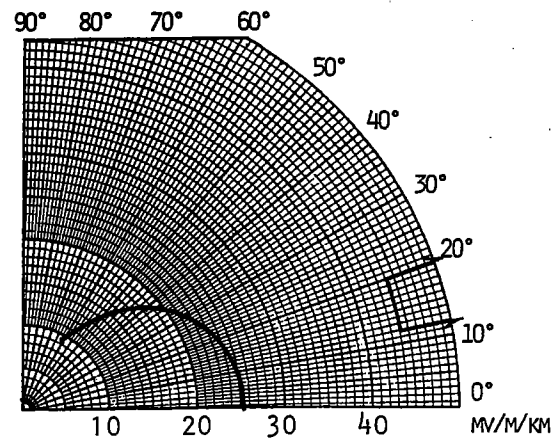
FROM: Prop. WPLX
 TO: WHAM-215°
 BEARING (°T) 70.98°T
 DISTANCE (KM) 668.5 km.
 MIDPOINT LAT.(°) ---
 θ MIN - θ MAX (°) 10.6°-18.2°
 HORIZONTAL RAD. 29.97 mV/m/km
 MAX. RAD. AT θ 29.55 mV/m/km
 SKYWAVE FACTOR 79.709 uV/m
 LIMIT 0.471 mV/m



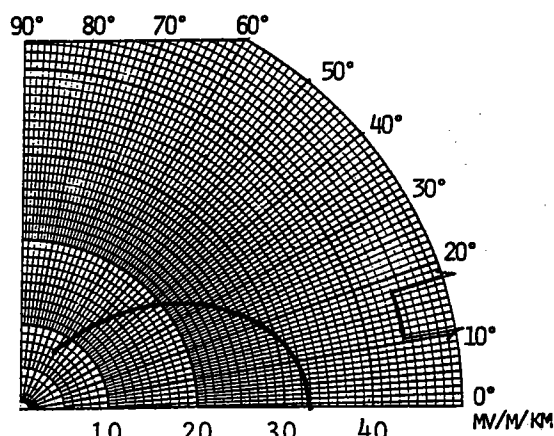
FROM: Prop. WPLX
 TO: WHAM-220°
 BEARING (°T) 65.69°T
 DISTANCE (KM) 629.1 km.
 MIDPOINT LAT.(°) ---
 θ MIN - θ MAX (°) 11.5°-19.4°
 HORIZONTAL RAD. 25.16 mV/m/km
 MAX. RAD. AT θ 25.06 mV/m/km
 SKYWAVE FACTOR 86.739 uV/m
 LIMIT 0.435 mV/m



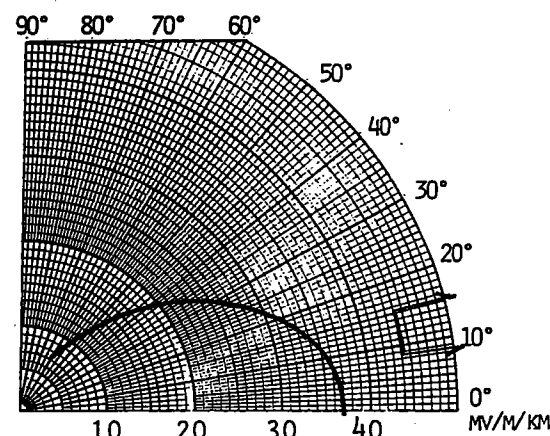
FROM: Prop. WPLX
 TO: WHAM-230°
 BEARING (°T) 52.88°T
 DISTANCE (KM) 589.8 km.
 MIDPOINT LAT.(°) ---
 θ MIN - θ MAX (°) 12.4°-20.7°
 HORIZONTAL RAD. 19.27 mV/m/km
 MAX. RAD. AT θ 20.33 mV/m/km
 SKYWAVE FACTOR 94.412 uV/m
 LIMIT 0.384 mV/m



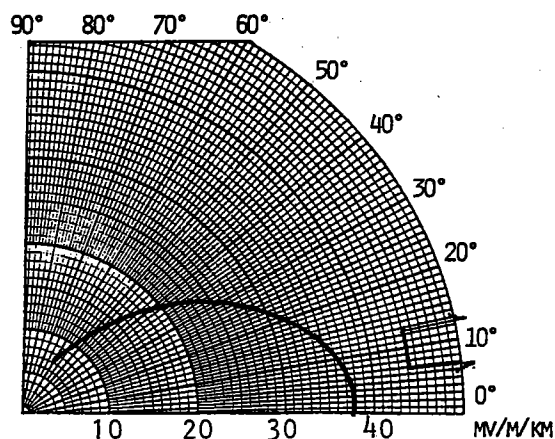
FROM: Prop. WPLX
 TO: WHAM-240°
 BEARING (°T) 39.69°T
 DISTANCE (KM) 609.2 km.
 MIDPOINT LAT.(°) ---
 θ MIN - θ MAX (°) 11.9°-20.0°
 HORIZONTAL RAD. 25.44 mV/m/km
 MAX. RAD. AT θ 24.87 mV/m/km
 SKYWAVE FACTOR 89.549 uV/m
 LIMIT 0.445 mV/m



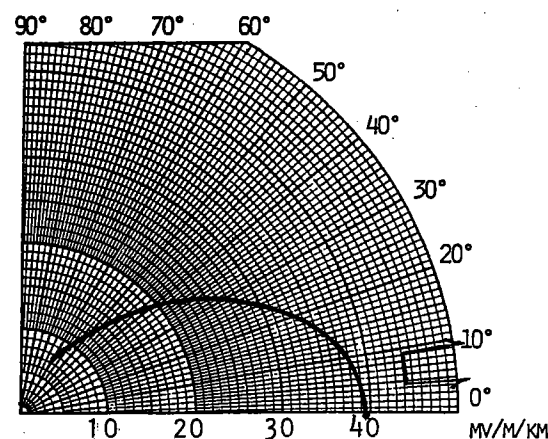
FROM: Prop. WPLX
 TO: WHAM-250°
 BEARING (°T) 29.23°T
 DISTANCE (KM) 678.5 km.
 MIDPOINT LAT.(°) ---
 θ MIN - θ MAX (°) 10.4°-17.9°
 HORIZONTAL RAD. 32.98 mV/m/km
 MAX. RAD. AT θ 31.77 mV/m/km
 SKYWAVE FACTOR 75.859 uV/m
 LIMIT 0.482 mV/m



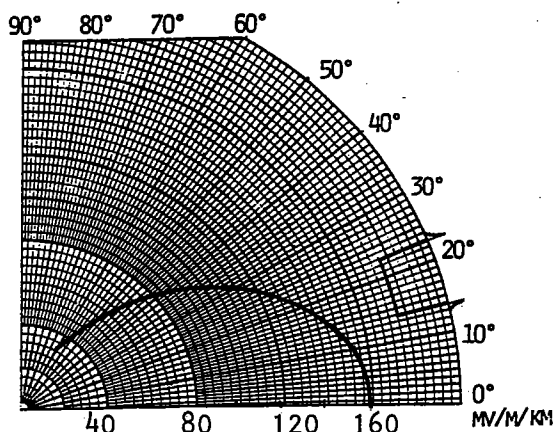
FROM: Prop. WPLX
 TO: WHAM-260°
 BEARING (°T) 22.47°T
 DISTANCE (KM) 780.0 km.
 MIDPOINT LAT.(°) ---
 θ MIN - θ MAX (°) 8.7°-15.3°
 HORIZONTAL RAD. 36.96 mV/m/km
 MAX. RAD. AT θ 35.84 mV/m/km
 SKYWAVE FACTOR 60.572 uV/m
 LIMIT 0.434 mV/m



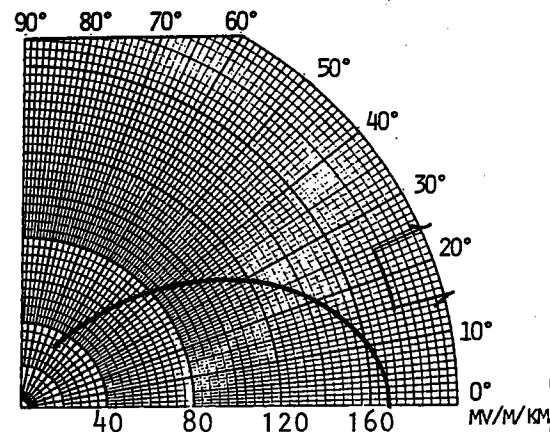
FROM: Prop. WPLX
 TO: WHAM-270°
 BEARING (°T) 20.61°T
 DISTANCE (KM) 913.0 km.
 MIDPOINT LAT.(°) ---
 θ MIN - θ MAX (°) 6.9°-12.6°
 HORIZONTAL RAD. 37.87 mV/m/km
 MAX. RAD. AT θ 37.12 mV/m/km
 SKYWAVE FACTOR 46.231 uV/m
 LIMIT 0.343 mV/m



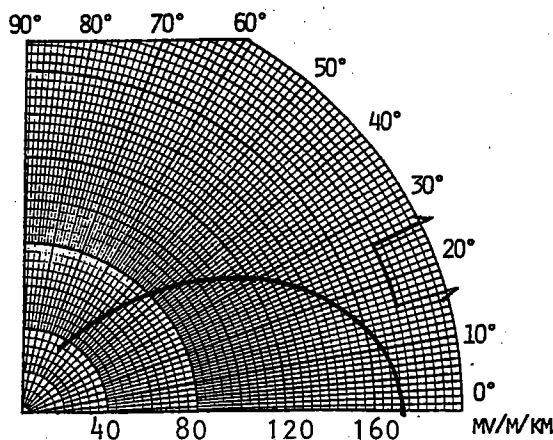
FROM: Prop. WPLX
 TO: WHAM-290°
 BEARING (°T) 16.99°T
 DISTANCE (KM) 1142.8 km.
 MIDPOINT LAT.(°) ---
 θ MIN - θ MAX (°) 4.6°-9.2°
 HORIZONTAL RAD. 39.42 mV/m/km
 MAX. RAD. AT θ 39.06 mV/m/km
 SKYWAVE FACTOR 30.189 uV/m
 LIMIT 0.236 mV/m



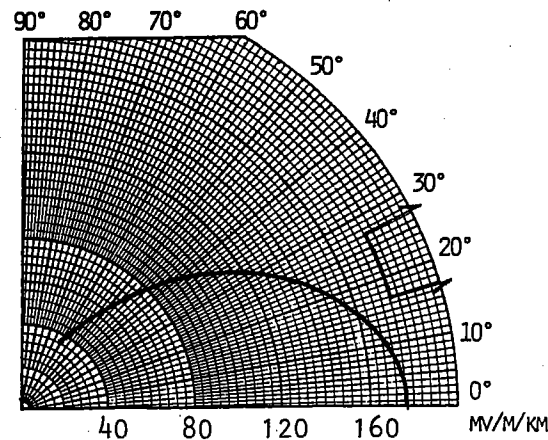
FROM: Prop. WPLX
 TO: KFAQ-GW Pt. B
 BEARING (°T) 295.17°T
 DISTANCE (KM) 533.8 km.
 MIDPOINT LAT.(°) ---
 θ MIN - θ MAX (°) 13.9°-22.9°
 HORIZONTAL RAD. 159.23 mV/m/km
 MAX. RAD. AT θ 147.81 mV/m/km
 SKYWAVE FACTOR 109.523 uV/m
 LIMIT 0.324 mV/m
 (adjacent frequency)



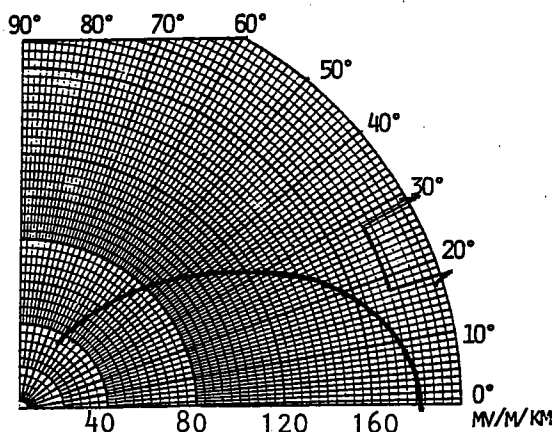
FROM: Prop. WPLX
 TO: KFAQ-GW Pt. C
 BEARING (°T) 288.16°T
 DISTANCE (KM) 498.8 km.
 MIDPOINT LAT.(°) ---
 θ MIN - θ MAX (°) 15.0°-24.5°
 HORIZONTAL RAD. 168.35 mV/m/km
 MAX. RAD. AT θ 154.43 mV/m/km
 SKYWAVE FACTOR 120.021 uV/m
 LIMIT 0.371 mV/m
 (adjacent frequency)



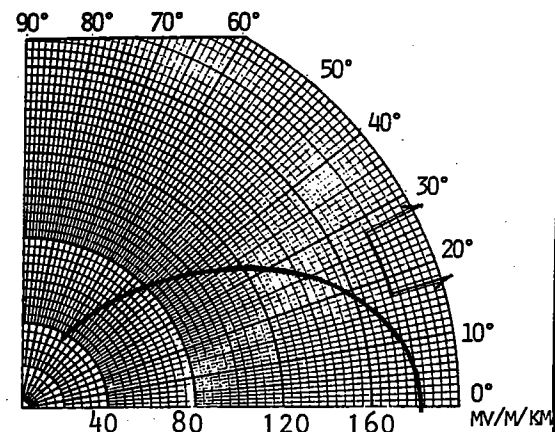
FROM: Prop. WPLX
 TO: KFAQ-GW Pt. D
 BEARING (°T) 283.53°T
 DISTANCE (KM) 469.8 km.
 MIDPOINT LAT.(°) ---
 θ MIN - θ MAX (°) 16.0°-25.9°
 HORIZONTAL RAD. 173.20 mV/m/km
 MAX. RAD. AT θ 157.04 mV/m/km
 SKYWAVE FACTOR 129.674 uV/m
 LIMIT 0.407 mV/m
 (adjacent frequency)



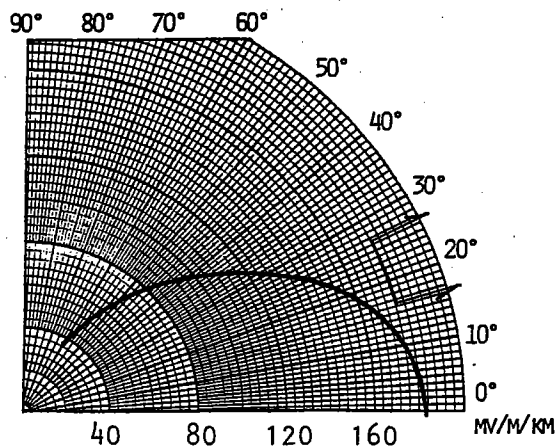
FROM: Prop. WPLX
 TO: KFAQ-GW Pt. E
 BEARING (°T) 279.62°T
 DISTANCE (KM) 445.3 km.
 MIDPOINT LAT.(°) ---
 θ MIN - θ MAX (°) 16.9°-27.2°
 HORIZONTAL RAD. 176.57 mV/m/km
 MAX. RAD. AT θ 158.30 mV/m/km
 SKYWAVE FACTOR 138.692 uV/m
 LIMIT 0.439 mV/m
 (adjacent frequency)



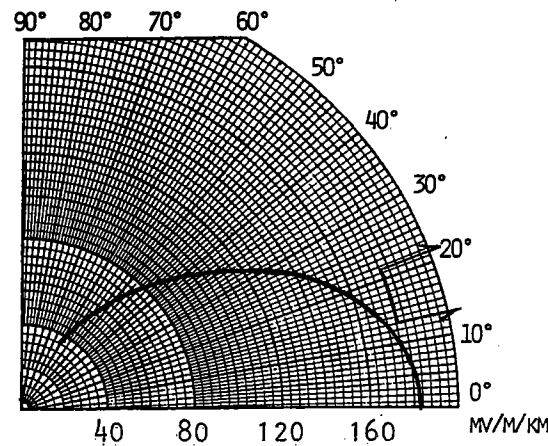
FROM: Prop. WPLX
 TO: KFAQ-GW Pt. F
 BEARING (°T) 270.49°T
 DISTANCE (KM) 422.0 km.
 MIDPOINT LAT. (°) ---
 θ MIN - θ MAX (°) 17.9°-28.6°
 HORIZONTAL RAD. 181.80 mV/m/km
 MAX. RAD. AT θ 160.86 mV/m/km
 SKYWAVE FACTOR 148.167 μ V/m
 LIMIT 0.477 mV/m
 (adjacent frequency)



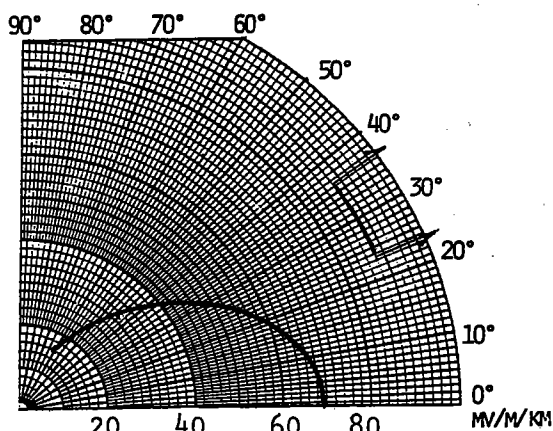
FROM: Prop. WPLX
 TO: KFAQ-GW Pt. G
 BEARING (°T) 266.29°T
 DISTANCE (KM) 435.5 km.
 MIDPOINT LAT. (°) ---
 θ MIN - θ MAX (°) 17.3°-27.8°
 HORIZONTAL RAD. 182.97 mV/m/km
 MAX. RAD. AT θ 163.21 mV/m/km
 SKYWAVE FACTOR 142.816 μ V/m
 LIMIT 0.466 mV/m
 (adjacent frequency)



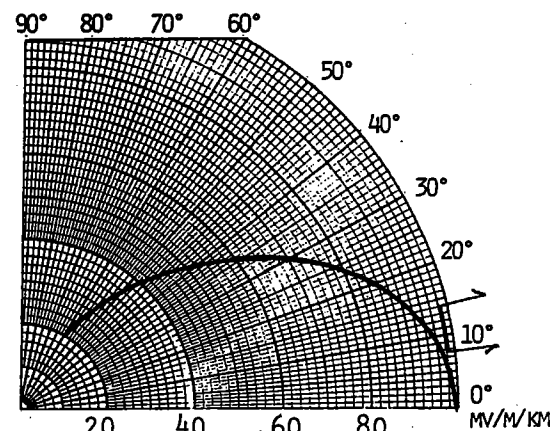
FROM: Prop. WPLX
 TO: KFAQ-GW Pt. H
 BEARING (°T) 262.50°T
 DISTANCE (KM) 458.2 km.
 MIDPOINT LAT. (°) ---
 θ MIN - θ MAX (°) 16.4°-26.5°
 HORIZONTAL RAD. 183.35 mV/m/km
 MAX. RAD. AT θ 165.45 mV/m/km
 SKYWAVE FACTOR 134.416 μ V/m
 LIMIT 0.445 mV/m
 (adjacent frequency)



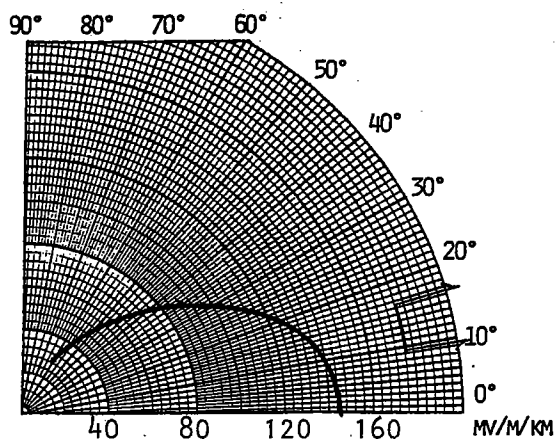
FROM: Prop. WPLX
 TO: KFAQ-GW Pt. I
 BEARING (°T) 260.25°T
 DISTANCE (KM) 564.5 km.
 MIDPOINT LAT. (°) ---
 θ MIN - θ MAX (°) 13.0°-21.7°
 HORIZONTAL RAD. 183.27 mV/m/km
 MAX. RAD. AT θ 171.84 mV/m/km
 SKYWAVE FACTOR 103.046 μ V/m
 LIMIT 0.354 mV/m
 (adjacent frequency)



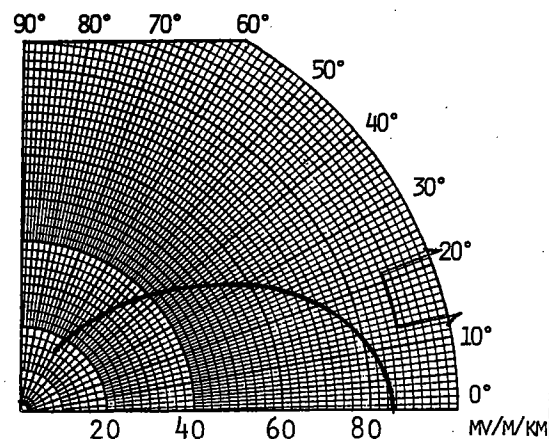
FROM: Prop. WPLX
 TO: WJNT Site
 BEARING (°T) 179.66°T
 DISTANCE (KM) 316.5 km.
 MIDPOINT LAT.(°) ---
 θ MIN - θ MAX (°) 23.7°-36.3°
 HORIZONTAL RAD. 69.43 mV/m/km
 MAX. RAD. AT θ 55.85 mV/m/km
 SKYWAVE FACTOR 203.342 μ V/m
 LIMIT 2.271 mV/m



FROM: Prop. WPLX
 TO: KYDZ Site
 BEARING (°T) 325.79°T
 DISTANCE (KM) 841.0 km.
 MIDPOINT LAT.(°) ---
 θ MIN - θ MAX (°) 7.8°-14.0°
 HORIZONTAL RAD. 99.41 mV/m/km
 MAX. RAD. AT θ 97.10 mV/m/km
 SKYWAVE FACTOR 54.510 μ V/m
 LIMIT 1.059 mV/m



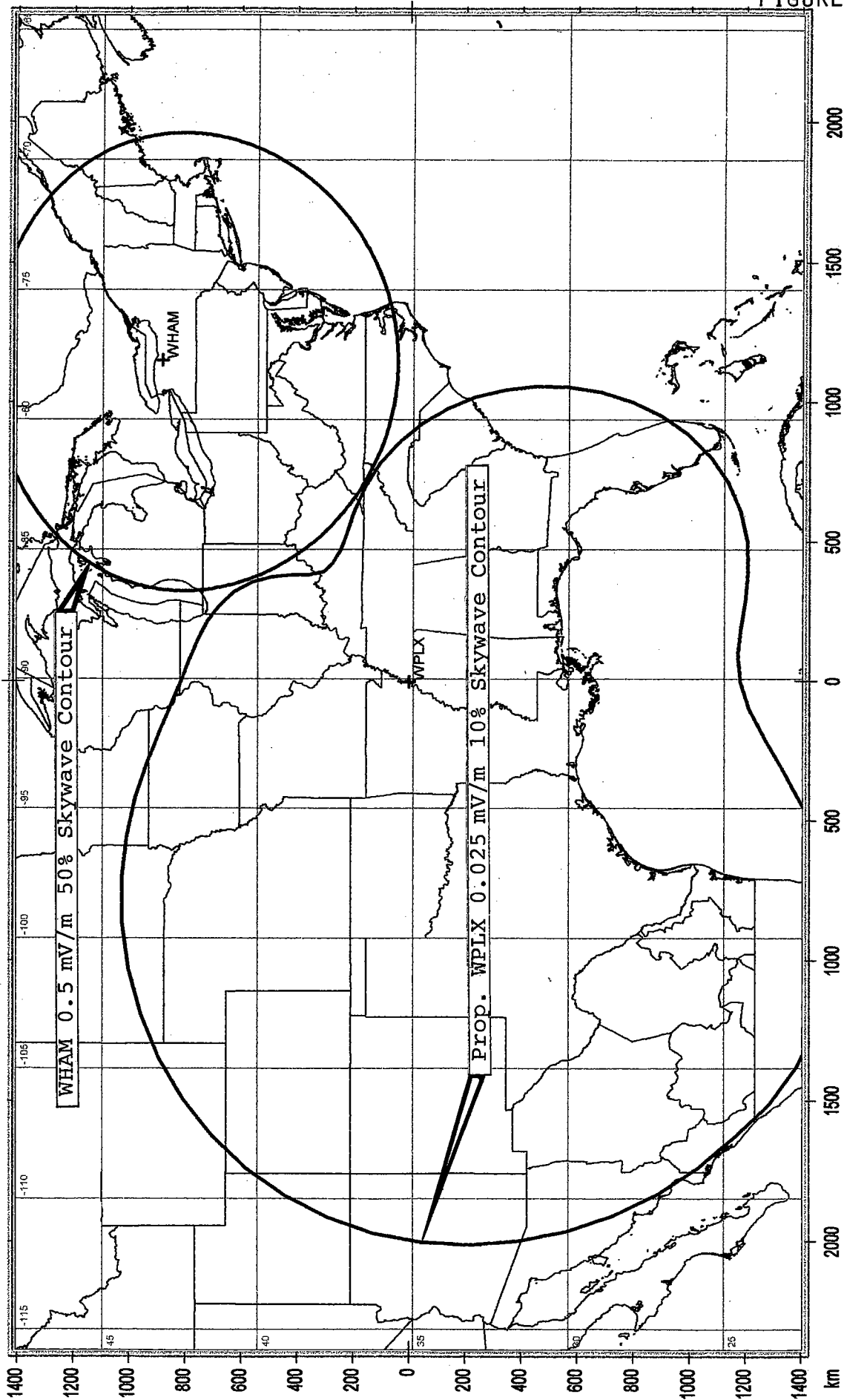
FROM: Prop. WPLX
 TO: KGOL Site (Lic. & App.)
 BEARING (°T) 222.37°T
 DISTANCE (KM) 736.2 km.
 MIDPOINT LAT.(°) ---
 θ MIN - θ MAX (°) 9.4°-16.3°
 HORIZONTAL RAD. 145.64 mV/m/km
 MAX. RAD. AT θ 140.62 mV/m/km
 SKYWAVE FACTOR 72.458 μ V/m
 LIMIT 2.038 mV/m



FROM: Prop. WPLX
 TO: NEW - Pace, FL
 BEARING (°T) 150.08°T
 DISTANCE (KM) 574.1 km.
 MIDPOINT LAT.(°) ---
 θ MIN - θ MAX (°) 12.8°-21.3°
 HORIZONTAL RAD. 85.20 mV/m/km
 MAX. RAD. AT θ 79.77 mV/m/km
 SKYWAVE FACTOR 101.668 μ V/m
 LIMIT 1.622 mV/m

FIGURE 20

Proposed WPLX Night 0.025 mV/m 10% skywave to WHAM 0.5 mV/m 50% skywave



EDUCATIONAL MEDIA FOUNDATION
WPLX - Germantown, TN
1180 kHz.
5kW-D, 3.5kW-CH, 85w-N, DA-3, U
April 2006