

September 17, 1996

Detailed AM Night Limit Study

Title: 740 KHZ. STUDY (NEW)

Frequency: 740 kHz (Canadian Clear)

Database: FCC 08/22/96

Latitude: 46-58-29

Longitude: 96-30-12

Call	Auth	Freq Power		Latitude	Longitude	Great		GC		GeoMag		Max.		Sky	Night Limit	RSS	
						Circle	Slant	--Azimuth--	MidPoint	--Theta--	Horiz.	Vert.	Wave				
		Dist	Dist to	from	Latitude	Min	Max	Rad.	Rad.	Mult.	(%)	(mV/m)					
		(kHz)	(kW)			(km)	(km)	(deg)	(deg)	(deg)	(deg)	(deg)	(deg)	(mV/m)	(mV/m)	(%)	(mV/m)
=====																	
CBL		740	50	43-34-30	79-49-03	1356.1	1370.7	100.1	292.0	45.6	56.3	3.0	6.9	2634.4	2619.5	15.21	7.966 **** 7.966
----- 50% Exclusion -----																	
----- 25% Exclusion -----																	
CBX		740	50	53-19-10	113-26-43	1393.0	1407.3	306.6	113.6	50.5	59.2	2.8	6.6	649.8	646.7	10.44	1.351 17.0 8.080
KMMJ	LIC	750	10	41-08-05	97-59-38	660.1	689.7	190.9	9.9	44.1	53.9	10.8	18.4	695.8	682.1	67.39	.919 11.4 8.132
KCBS	LIC	740	50	38-08-23	122-31-45	2332.4	2340.9	254.6	56.7	43.3	51.3	.0	.6	513.9	513.9	7.03	.723 8.9 8.164
WSB	LIC	750	50	33-50-43	84-15-12	1785.9	1797.1	140.4	328.5	40.6	51.2	.6	3.6	2685.7	2685.1	12.56	.675 8.3 8.192
WWNZ	LIC	740	50	28-28-53	81-39-43	2426.0	2434.2	142.7	332.0	38.0	48.7	.0	.2	408.0	408.0	7.68	.627 7.6 8.216
KTRH	LIC	740	50	29-57-57	94-56-32	1895.8	1906.3	175.4	356.4	38.5	48.5	.1	2.9	241.1	241.1	12.86	.620 7.5 8.239
KRMG	LIC	740	25	36-04-50	96-17-09	1211.3	1227.7	179.1	359.2	41.5	51.5	4.0	8.4	91.5	90.6	26.31	.477 5.8 8.253
KIDR	LIC	740	.292	33-21-55	112-06-30	2004.1	2014.1	226.6	36.4	40.4	49.3	.0	2.3	212.6	212.6	11.05	.470 5.7 8.266
XEX		730	100	19-15-00	99-05-00	3091.4	3097.8	185.2	3.8	33.1	43.0	.0	.0	3621.0	3621.0	6.07	.439 5.3 8.278
KATK	LIC	740	.25	32-27-02	104-12-47	1742.1	1753.5	204.8	19.8	39.8	49.2	.8	3.9	148.9	148.8	14.68	.437 5.3 8.289
KTWK	LIC	740	1.5	39-05-02	104-42-41	1100.8	1118.8	220.1	34.5	43.1	52.5	5.0	9.8	76.3	73.2	29.83	.437 5.3 8.301
XE-7		740	.5	25-40-11	100-18-26	2392.3	2400.7	189.4	7.1	36.3	46.1	.0	.3	199.2	199.2	9.02	.359 4.3 8.309
KVFC	LIC	740	.25	37-20-58	108-32-29	1455.9	1469.6	227.0	38.9	42.3	51.4	2.4	6.0	84.9	84.8	18.58	.315 3.8 8.321
CKDM		730	5	51-09-08	100-13-46	537.8	573.8	331.1	148.3	49.1	58.7	13.8	22.7	197.7	204.6	72.21	.295 3.6 8.326
KCMC	LIC	740	1	33-26-17	94-08-33	1518.1	1531.2	171.6	353.2	40.7	50.3	2.0	5.5	63.3	63.2	18.20	.230 2.8 8.329
WVCH	CP	740	.45	40-08-46	75-28-37	1848.8	1859.6	106.6	301.2	44.0	55.0	.3	3.2	107.2	107.1	8.72	.187 2.2 8.331
CJNR		730	1	46-10-37	82-59-03	1035.7	1054.8	90.0	279.8	46.8	57.3	5.6	10.7	311.3	308.9	24.23	.150 1.8 8.333
CKAC		730	50	45-30-50	73-58-26	1733.9	1745.3	87.1	283.5	46.8	57.7	.8	3.9	969.2	969.2	7.51	.146 1.7 8.334
WIAC	CP	740	10	18-21-24	66-14-05	4208.9	4213.7	128.8	325.9	33.6	44.9	.0	.0	255.6	255.6	2.82	.144 1.7 8.335
CHYR7		730	.5	42-00-30	82-33-40	1233.5	1249.6	111.5	301.3	44.7	55.3	3.9	8.2	353.2	352.2	20.07	.141 1.7 8.336
CKGB		750	5	48-27-15	81-21-35	1142.8	1160.1	76.2	267.4	48.0	58.6	4.6	9.2	367.2	365.7	17.55	.128 1.5 8.337
KKDA	LIC	730	.5	32-45-51	96-59-26	1580.5	1593.1	181.7	1.4	39.9	49.8	1.6	5.0	342.0	341.8	17.27	.118 1.4 8.338
KOAL	LIC	750	6.8	39-34-02	110-47-53	1416.8	1430.8	239.6	49.8	43.5	52.4	2.6	6.4	219.2	221.0	18.50	.082 1.0 8.339
ASHCROFT		740	2.5	50-43-00	121-10-00	1842.6	1853.4	292.1	93.4	49.5	57.7	.3	3.2	60.3	60.2	6.50	.078 .9 8.339
KBSU	CP	730	.5	43-30-56	116-19-43	1594.1	1606.6	263.3	69.1	45.7	54.2	1.6	4.9	292.9	292.4	12.86	.075 .9 8.339
KERR	LIC	750	1	47-38-34	114-07-25	1327.5	1342.5	279.7	86.7	47.6	56.4	3.2	7.2	230.5	229.6	15.82	.073 .9 8.340
CKLG		730	50	49-07-57	123-00-18	1973.8	1983.9	286.8	86.9	48.8	56.9	.0	2.4	548.9	548.9	6.10	.067 .8 8.340
WSBR	LIC	740	.94	26-20-06	80-15-55	2701.4	2708.8	142.5	332.4	36.9	47.7	.0	.0	49.6	49.6	6.45	.064 .8 8.340
KSUD	LIC	730	.267	35-08-31	90-08-06	1418.5	1432.6	155.8	340.0	41.1	51.4	2.6	6.4	155.1	154.8	19.60	.061 .7 8.340
VERNON		730	10	50-12-50	119-12-45	1701.2	1712.9	290.6	93.4	49.2	57.5	1.0	4.2	366.2	372.2	8.08	.060 .7 8.340
CARONI T		730	20	10-36-00	61-25-00	5214.3	5218.1	129.3	327.5	29.9	41.3	.0	.0	1384.0	1384.0	2.07	.057 .7 8.341
CJWV		750	10	52-04-25	106-48-36	933.8	954.9	311.2	123.3	49.6	58.8	6.7	12.2	101.1	100.7	26.00	.052 .6 8.341
CJVR		750	10	52-36-45	104-30-15	849.1	872.3	320.5	134.4	49.9	59.2	7.7	13.8	69.5	74.9	30.36	.045 .5 8.341
WTK	LIC	730	.34	27-24-25	81-25-56	2542.3	2550.2	143.6	332.8	37.4	48.2	.0	.0	312.3	312.3	7.16	.045 .5 8.341
KXL	LIC	750	20	45-24-05	122-26-47	1995.3	2005.3	274.5	75.6	46.9	55.0	.0	2.3	274.6	274.6	7.30	.040 .5 8.341
XEKOK		750	1	16-56-55	99-49-59	3352.3	3358.3	186.4	4.5	32.0	41.8	.0	.0	305.8	305.8	5.36	.033 .4 8.341
KFOD	LIC	750	50	61-08-13	149-50-06	3689.2	3694.6	315.0	90.4	57.0	60.0	.0	.0	2202.4	2202.4	.60	.026 .3 8.341
CHCM		740	10	47-08-41	55-16-22	3086.0	3092.5	74.3	285.1	48.9	60.0	.0	.0	68.3	68.3	1.06	.015 .2 8.341
RIMOUSKI		750	5	48-24-00	68-38-00	2080.3	2089.9	75.3	276.1	48.5	59.6	.0	1.9	170.7	170.8	3.60	.012 .1 8.341
KAMA	LIC	750	1	31-46-21	106-16-56	1884.1	1894.7	209.7	23.4	39.5	48.8	.1	3.0	38.6	38.6	12.85	.010 .1 8.341
GOOSE BA		740	1	53-16-00	60-28-00	2631.4	2639.0	61.2	269.3	51.5	60.0	.0	.0	11.5	11.5	1.73	.004 .0 8.341
CBGY		750	10	48-40-27	53-46-23	3153.3	3159.7	70.6	282.9	49.8	60.0	.0	.0	108.2	108.2	.99	.002 .0 8.341
----- 0% Exclusion -----																	
MONTSERR		740	300	16-41-00	62-11-00	4607.0	4611.3	145.6	324.5	33.0	44.4	.0	.0	5019.1	5019.1	2.35	2.363
CMAC		740	30	22-19-00	83-39-00	2973.8	2980.5	144.8	340.3	34.8	45.5	.0	.0	1746.3	1746.3	5.90	2.062

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Database: FCC 08/22/96

Latitude: 46-58-29

Longitude: 96-30-12

Call	Auth	Freq Power		Latitude	Longitude	Great		GC GeoMag		Max.		Sky	RSS
		(kHz)	(kW)			Circle	Slant	--Azimuth--	MidPoint	--Theta--	Horiz.	Vert.	
						Dist	Dist	to	from	Latitude	Min	Max	Night
						(km)	(km)	(deg)	(deg)	(deg)	(deg)	(mV/m)	Limit
													(%)
													Limit
CMAC		740	30	22-19-00	83-39-00	2973.8	2980.5	263.6	340.3	34.8	45.5	.0	.0
CMAC		740	30	22-19-00	83-39-00	2973.8	2980.5	208.5	340.3	34.8	45.5	.0	.0
HJNS		740	50	10-38-00	73-14-00	4594.8	4599.1	142.1	335.9	29.3	40.4	.0	.0
YVNC		740	50	10-37-00	71-41-00	4667.3	4671.6	142.1	334.6	29.4	40.5	.0	.0
CMKJ		740	10	20-53-48	76-15-45	3425.9	3431.8	129.6	332.6	34.3	45.3	.0	.0
CMAB		740	5	22-25-35	83-42-40	2960.2	2966.9	164.5	340.3	34.9	45.5	.0	.0
KATK		740	.5	32-27-02	104-12-47	1742.1	1753.5	161.2	19.8	39.8	49.2	.8	3.9
PEMBINA		750	1	48-55-01	97-15-10	223.0	299.5	161.2	165.2	47.9	57.7	32.3	46.5
HJHB		740	10	1-12-00	77-16-00	5419.6	5423.3	89.6	342.6	24.4	35.4	.0	.0
KIDR	SMV	740	.292	33-21-55	112-06-30	2004.1	2014.1	97.1	36.4	40.4	49.3	.0	2.3
XEX		730	100	19-19-29	99-04-39	3083.0	3089.5	112.8	3.8	33.2	43.0	.0	.0
KBOE-S	LIC	740	.01	41-19-15	92-38-44	699.7	727.7	169.8	335.2	44.2	54.3	10.0	17.3
KBOE-S	SMV	740	.01	41-19-15	92-38-44	699.7	727.7	169.8	335.2	44.2	54.3	10.0	17.3
XEVAY		740	1	20-36-40	105-14-50	3035.8	3042.4	152.4	13.1	33.9	43.3	.0	.0
XEVAY		740	1	20-36-40	105-14-50	3035.8	3042.4	266.0	13.1	33.9	43.3	.0	.0
KWOA-S	LIC	730	.159	43-37-48	95-40-32	377.4	427.1	216.3	350.4	45.3	55.2	20.0	31.5
KWOA-S	SMV	730	.159	43-37-48	95-40-32	377.4	427.1	98.7	350.4	45.3	55.2	20.0	31.5
TGHF		740	1	14-58-00	91-48-00	3585.2	3590.8	123.4	354.0	31.0	41.3	.0	.0
HRNN 24		740	1	15-30-00	88-02-00	3585.9	3591.5	130.9	349.1	31.3	41.8	.0	.0
WRPQ-S	LIC	740	.006	43-27-19	89-45-13	657.3	687.0	115.8	308.9	45.3	55.5	10.9	18.5
XELTZ		740	.5	21-57-21	102-16-21	2829.5	2836.5	265.6	9.2	34.5	44.1	.0	.0
HRQQ		740	1	14-18-00	88-10-00	3714.4	3719.8	265.6	349.6	30.7	41.2	.0	.0
WNOP-S	LIC	740	.03	39-05-41	84-34-59	1303.5	1318.7	103.9	316.1	43.2	53.7	3.4	7.4
XE-13		740	.25	29-04-30	110-57-37	2350.1	2358.6	112.6	28.2	38.2	47.2	.0	.5
KBRT-S	LIC	740	.113	33-21-36	118-22-18	2382.1	2390.5	132.7	44.1	40.7	49.1	.0	.4
KBRT-S	SMV	740	.113	33-21-36	118-22-18	2382.1	2390.5	132.7	44.1	40.7	49.1	.0	.4
SHERIDAN		740	.25	44-48-00	106-56-00	841.8	865.3	136.5	69.6	46.0	55.2	7.8	13.9
4VIE		740	1	19-17-00	72-07-00	3791.9	3797.2	182.5	329.8	33.7	44.9	.0	.0
XEZA		740	.25	25-37-18	109-03-10	2619.2	2626.8	248.3	21.8	36.5	45.6	.0	.0
TODOO SA		740	.25	23-27-51	110-12-04	2885.0	2891.9	113.1	21.7	35.4	44.4	.0	.0
XE-17		740	.25	23-27-51	110-12-04	2885.0	2891.9	122.2	21.7	35.4	44.4	.0	.0
XE-3-S		740	.25	28-24-25	106-51-13	2251.6	2260.4	279.7	20.7	37.8	47.1	.0	1.0
PETOSKEY APC		750	.33	45-20-05	84-55-34	909.2	930.9	108.2	285.7	46.3	56.8	6.9	12.7
YNRS4		750	50	12-10-00	85-55-00	3994.9	3999.9	111.5	347.7	29.7	40.3	.0	.0
CHYR7		730	1	42-00-30	82-33-40	1233.5	1249.6	111.5	301.3	44.7	55.3	3.9	8.2
CMHC		730	30	21-21-00	77-55-00	3303.7	3309.8	191.1	334.0	34.5	45.4	.0	.0
CMHC		730	30	21-21-00	77-55-00	3303.7	3309.8	185.2	334.0	34.5	45.4	.0	.0
CMHC		730	30	21-21-00	77-55-00	3303.7	3309.8	222.0	334.0	34.5	45.4	.0	.0
WJMT-S	LIC	730	.127	45-10-45	89-38-20	565.5	599.9	148.5	293.1	46.1	56.4	13.0	21.6
XEKV-S		740	.25	17-59-22	92-54-43	3239.3	3245.5	160.1	355.0	32.5	42.7	.0	.0
WIAC	LIC	740	10	18-25-25	66-08-20	4208.4	4213.2	143.2	325.8	33.6	44.9	.0	.0
WMSP	LIC	740	.173	32-18-39	86-13-40	1848.8	1859.6	143.2	334.8	39.8	50.3	.3	3.2
WIRJ-S	LIC	740	.016	35-48-52	88-54-51	1391.3	1405.6	143.2	335.4	41.5	51.8	2.8	6.6
NEW		730	.5	42-00-30	82-33-40	1233.5	1249.6	133.5	301.3	44.7	55.3	3.9	8.2
WVLN-S	LIC	740	.007	38-42-00	88-04-53	1146.5	1163.8	133.5	326.1	42.9	53.3	4.6	9.2
WVLN-S	SMV	740	.007	38-42-00	88-04-53	1146.5	1163.8	169.3	326.1	42.9	53.3	4.6	9.2
XE-19-S		740	.1	28-51-01	103-21-25	2100.8	2110.3	163.6	14.6	38.0	47.5	.0	1.7
YVMT		730	50	10-05-00	69-20-00	4833.8	4837.9	153.7	333.1	29.2	40.4	.0	.0
YVKS		750	50	10-29-00	67-00-00	4913.8	4917.9	139.2	331.2	29.5	40.8	.0	.0

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Call	Auth	Freq Power		Latitude	Longitude	Great		GC GeoMag		Max. Sky		RSS
		(kHz)	(kW)			Circle	Slant	--Azimuth--	MidPoint	--Theta--	Horiz.	
						Dist	Dist to	from	Latitude	Min	Max	Night
						(km)	(km)	(deg)	(deg)	(deg)	(deg)	Limit
										(mV/m)	(mV/m)	(%)
										(mV/m)	(uV/m)	(mV/m)
XE-6-S		740	.1	18-54-32	103-45-00	3189.5	3195.7	148.2	10.3	33.0	42.5	.103
WJIG-S	LIC	740	.011	35-20-36	86-12-00	1551.4	1564.2	226.6	329.6	41.3	51.8	.099
KURL-S	LIC	730	.236	45-45-29	108-29-53	929.2	950.4	238.4	77.3	46.5	55.6	.093
TGN		730	10	14-37-00	90-33-00	3639.7	3645.2	238.4	352.5	30.8	41.2	.090
YSS		750	10	14-03-00	89-42-00	3714.8	3720.2	140.3	351.6	30.6	41.0	.087
HJDK		750	25	6-18-00	75-36-00	4942.6	4946.7	140.3	339.7	27.0	38.1	.086
HJCU		730	25	4-39-00	74-08-00	5171.6	5175.4	152.6	339.0	26.2	37.3	.081
WRNR-S	LIC	740	.021	39-28-25	77-55-57	1714.0	1725.7	152.6	305.2	43.6	54.4	.075
WRNR-S	SMV	740	.021	39-28-25	77-55-57	1714.0	1725.7	127.9	305.2	43.6	54.4	.075
WRWB-S	LIC	740	.007	36-34-32	83-39-37	1567.8	1580.5	95.0	321.5	42.0	52.6	.074
XENVA2		730	1	28-42-25	100-31-02	2060.6	2070.3	95.0	8.6	37.9	47.6	.070
TIHB		730	10	9-54-00	84-03-00	4286.3	4290.9	204.8	346.3	28.6	39.3	.069
KWRE-S	LIC	730	.12	38-49-20	91-08-15	1005.6	1025.3	101.9	336.1	42.9	53.1	.068
WHITEHOR		740	.8	60-42-00	135-00-00	2889.6	2896.5	122.6	104.3	55.3	60.0	.067
TGAJ		750	5	14-18-00	90-47-00	3671.4	3676.9	125.8	352.8	30.7	41.0	.063
HOR 44		730	10	8-58-29	79-31-44	4520.0	4524.4	107.3	342.2	28.2	39.1	.062
WPAQ-S	LIC	740	.007	36-32-04	80-35-48	1751.2	1762.5	128.6	316.5	42.0	52.8	.059
WFMW-S	APP	730	.215	37-21-31	87-29-45	1299.6	1314.9	132.9	328.2	42.3	52.7	.059
WFMW-S	LIC	730	.215	37-21-03	87-29-25	1300.6	1315.9	150.4	328.2	42.3	52.7	.058
WMBL-S	LIC	740	.014	34-44-18	76-48-40	2132.5	2141.8	142.8	315.6	41.3	52.2	.057
JBC		750	5	18-24-00	76-53-00	3646.3	3651.7	116.5	335.0	33.1	44.0	.056
PARK CIT		750	1	40-41-29	111-27-40	1384.8	1399.2	112.4	54.7	44.1	53.0	.050
WMBG-S	LIC	740	.008	37-16-37	76-45-07	1944.6	1954.8	112.4	309.9	42.5	53.4	.047
WJYM		730	.359	41-31-57	83-33-55	1192.6	1209.3	124.1	304.8	44.4	55.0	.041
KDAZ-S	LIC	730	.076	35-00-31	106-42-52	1579.4	1592.1	257.1	29.5	41.1	50.4	.041
XENVA2		730	.5	30-43-00	112-05-00	2246.5	2255.4	192.5	32.0	39.1	48.0	.041
WVFN-S	LIC	730	.05	42-38-45	84-33-38	1056.3	1075.0	209.8	301.2	45.0	55.5	.040
SASKATOO		750	10	52-05-00	106-25-00	912.1	933.7	209.8	124.6	49.6	58.9	.040
SASKATOO		750	10	52-05-00	106-25-00	912.1	933.7	207.2	124.6	49.6	58.9	.040
WLIL-S	LIC	730	.214	35-46-12	84-16-47	1606.0	1618.4	198.8	324.6	41.5	52.1	.039
CMFC		750	1	22-05-00	80-27-00	3119.8	3126.2	194.4	336.4	34.8	45.6	.038
WVCH-S	LIC	740	.006	39-52-38	75-24-24	1869.5	1880.2	198.1	301.9	43.9	54.8	.038
TACAMBAR		750	1	19-14-32	101-29-15	3116.5	3122.9	198.1	7.2	33.1	42.8	.034
CMFC		750	1	22-05-00	80-27-00	3119.8	3126.2	209.4	336.4	34.8	45.6	.033
CMFC		750	1	22-05-00	80-27-00	3119.8	3126.2	217.2	336.4	34.8	45.6	.033
XEKOK		750	1	16-53-12	99-51-02	3359.3	3365.3	173.0	4.5	31.9	41.7	.033
KLOE-S	LIC	730	.02	39-20-04	101-45-28	949.8	970.6	316.0	24.9	43.2	52.8	.032
XEQF		750	1	18-05-25	95-54-40	3211.8	3218.0	154.0	359.2	32.5	42.6	.032
XEQF		750	1	18-05-25	95-54-37	3211.8	3218.0	144.0	359.2	32.5	42.6	.032
XEQF		750	1	18-05-06	95-54-37	3212.4	3218.6	152.8	359.2	32.5	42.6	.032
WUMP-S	LIC	730	.129	34-41-46	86-44-19	1590.3	1602.9	140.9	332.1	40.9	51.4	.032
CMJC		750	1	20-01-00	75-50-00	3533.4	3539.0	152.8	332.8	33.9	44.9	.030
WOHS-S	LIC	730	.168	35-17-30	81-34-00	1797.2	1808.3	152.8	320.8	41.4	52.1	.029
HRTG		730	1	14-07-00	87-13-00	3753.8	3759.1	152.8	348.6	30.6	41.2	.028
KSVN-S	LIC	730	.066	41-11-17	112-04-52	1397.2	1411.4	171.5	57.4	44.3	53.2	.028
CMJC		750	1	20-01-00	75-50-00	3533.4	3539.0	136.0	332.8	33.9	44.9	.026
CMJC		750	1	20-01-00	75-50-00	3533.4	3539.0	165.2	332.8	33.9	44.9	.026
WGSM-S	LIC	740	.043	40-51-04	73-26-16	1960.1	1970.2	164.6	298.0	44.5	55.5	.025
HIDB		750	1	19-29-00	70-41-00	3849.9	3855.1	125.3	328.5	33.9	45.1	.025

Detailed AM Night Limit Study

Latitude: 46-58-29
Longitude: 96-30-12

>> End of Night Limit Study <<

Independent Broadcast Consultants
Trumansburg, NY

January 9, 1997

Permissible AM Nighttime Radiation

Title: Fargo, ND

Frequency: 740 kHz (Canadian Clear Channel)

Database: FCC 12/16/96

Latitude: 46-58-29

Longitude: 96-30-12

-Theta-- Max					-Theta-- Max					-Theta-- Max					-Theta-- Max				
Az.	Min	Max	Radiat	Call	Az.	Min	Max	Radiat	Call	Az.	Min	Max	Radiat	Call	Az.	Min	Max	Radiat	Call
deg	deg	deg	(mV/m)	Sign	deg	deg	deg	(mV/m)	Sign	deg	deg	deg	(mV/m)	Sign	deg	deg	deg	(mV/m)	Sign
0	.0	.0	.0		45	7.3	7.3	46.7	CBL -344	90	2.8	2.8	266.4	CBL - 67	135	.0	.0	.0	
1	.0	.0	.0		46	6.5	6.5	53.5	CBL -348	91	3.0	3.0	251.8	CBL - 69	136	.5	3.5	2069.1	WSB - 64
2	.0	.0	.0		47	5.9	5.9	58.9	CBL -351	92	8.5	8.5	79.6	CBL -314	137	.9	4.0	1909.9	WSB - 23
3	.0	.0	.0		48	5.4	5.4	65.3	CBL -354	93	3.2	3.2	224.5	CBL - 74	138	1.1	4.3	1818.2	WSB -357
4	.0	.0	.0		49	5.1	5.1	69.9	CBL -356	94	3.3	3.3	204.1	CBL - 78	139	1.2	4.5	1767.1	WSB -341
5	.0	.0	.0		50	4.7	4.7	77.5	CBL -359	95	7.4	7.4	81.6	CBL -311	140	4.6	9.2	1166.4	WVLN
6	.0	.0	.0		51	4.3	4.3	85.9	CBL - 2	96	7.3	7.3	79.9	CBL -308	141	1.3	4.5	1740.1	WSB -319
7	.0	.0	.0		52	4.0	4.0	91.9	CBL - 4	97	7.2	7.2	77.4	CBL -304	142	1.2	4.5	1741.1	WSB -315
8	.0	.0	.0		53	3.6	3.6	101.6	CBL - 7	98	7.1	7.1	75.5	CBL -300	143	1.2	4.4	1758.6	WSB -301
9	.0	.0	.0		54	3.4	3.4	109.0	CBL - 9	99	7.0	7.0	73.7	CBL -296	144	1.0	4.2	1801.1	WSB -283
10	.0	.0	.0		55	3.1	3.1	121.3	CBL - 12	100	6.9	6.9	71.4	CBL -290	145	.0	1.8	*****	WSTT
11	.0	.0	.0		56	2.9	2.9	130.0	CBL - 14	101	6.8	6.8	74.5	CBL -288	146	1.6	5.0	*****	WUMP
12	.0	.0	.0		57	2.6	2.6	143.5	CBL - 17	102	6.7	6.7	96.8	CBL -283	147	.0	.0	.0	
13	.0	.0	.0		58	2.4	2.4	152.6	CBL -	103	6.6	6.6	109.5	CBL -272	148	.3	3.2	2974.2	WMSP
14	.0	.0	.0		59	2.1	2.1	166.1	CBL - 22	104	6.5	6.5	104.1	CBL -265	149	.0	.0	.0	
15	.0	.0	.0		60	1.9	1.9	175.2	CBL - 24	105	6.5	6.5	94.2	CBL -260	150	2.8	6.6	3508.5	WIRJ
16	.0	.0	.0		61	1.8	1.8	184.7	CBL - 26	106	6.5	6.5	85.9	CBL -255	151	.0	.0	.0	
17	.0	.0	.0		62	1.5	1.5	199.2	CBL - 29	107	6.5	6.5	83.2	CBL -252	152	5.9	11.1	4503.3	KWRE
18	.0	.0	.0		63	1.4	1.4	209.1	CBL - 31	108	6.4	6.4	85.6	CBL -250	153	10.0	17.3	314.0	KBOE
19	.0	.0	.0		64	1.2	1.2	219.3	CBL - 33	109	6.4	6.4	89.1	CBL -247	154	.0	.0	6326.2	HJHB
20	.0	.0	.0		65	1.1	1.1	229.5	CBL - 35	110	6.5	6.5	95.8	CBL -244	155	.0	.0	.0	
21	.0	.0	.0		66	.9	.9	244.3	CBL - 38	111	6.6	6.6	98.7	CBL -243	156	2.6	6.4	9613.0	KUD
22	.0	.0	.0		67	.8	.8	253.2	CBL - 40	112	6.5	6.5	99.8	CBL -242	157	.0	.0	.0	
23	.0	.0	.0		68	.6	.6	262.3	CBL - 42	113	6.4	6.4	104.3	CBL -238	158	.0	.0	*****	HCSE4
24	.0	.0	.0		69	.5	.5	271.4	CBL - 44	114	.0	.0	.0		159	.0	.0	.0	
25	.0	.0	.0		70	.4	.4	284.4	CBL - 47	115	.0	.0	.0		160	.0	.0	.0	
26	.0	.0	.0		71	.3	.3	293.0	CBL - 49	116	4.2	8.6	9125.7	WJYM	161	.0	2.8	*****	
27	.0	.0	.0		72	.1	.1	301.5	CBL - 51	117	.0	2.6	4594.4	WMBG	162	.0	.0		
28	.0	.0	.0		73	.0	.0	309.9	CBL - 53	118	.0	.0	.0		163	.0	.0		
29	.0	.0	.0		74	.0	.0	323.0	CBL - 56	119	.0	.0	.0		164	1.4	4.7	*****	
30	.0	.0	.0		75	.0	.0	331.7	CBL - 58	120	.0	.0	.0		165	.0	.0	9859.0	HRCL
31	.0	.0	.0		76	.0	.0	.0		121	.0	.0	.0		166	.0	.0	.0	
32	.0	.0	.0		77	.0	.0	.0		122	.5	3.5	*****	WMN..	167	.0	.0	.0	
33	.0	.0	.0		78	.0	.0	.0		123	.0	1.6	3408.6	WMBL	168	.0	.0	.0	
34	.0	.0	.0		79	.8	.8	367.8	CBL - 59	124	10.0	18.5	473.8	WRPA	169	.0	.0	.0	
35	.0	.0	.0		80	.9	.9	379.1	CBL - 61	125	.0	.0	4514.4		170	20.0	31.5	637.7	KNOA
36	.0	.0	.0		81	.9	.9	384.5	CBL - 62	126	.8	3.8	3284.5	WPAQ	171	.0	.0	*****	TGHF
37	.0	.0	.0		82	.9	.9	391.9	CBL - 64	127	.0	.0	.0		172	2.0	5.5	839.9	KCMC
38	.0	.0	.0		83	1.0	1.0	397.5	CBL - 66	128	3.4	7.4	2266.6	WNOP	173	.0	.0	*****	XEKV
39	.0	.0	.0		84	.0	.0	.0		129	.0	.0	4782.8	WIAC	174	.0	.0	.0	
40	.0	.0	.0		85	.0	.0	.0		130	2.1	5.7	8105.5	WNTC	175	.1	2.9	813.0	KTRH
41	17.2	17.2	21.8	CBL -317	86	.0	.0	.0		131	.5	3.5	*****	WOHS	176	.0	.0	.0	
42	17.8	17.8	21.4	CBL -316	87	.0	.0	.0		132	.0	.0	.0		177	.0	.0	*****	XE-7
43	8.9	8.9	37.5	CBL -337	88	.0	.0	.0		133	1.7	5.1	2625.7	WRWB	178	.0	.0	.0	
44	7.9	7.9	42.5	CBL -341	89	9.3	9.3	72.9	CBL -315	134	.0	.0	.0		179	4.0	8.4	426.6	KRMG

Independent Broadcast Consultants

Trumansburg, NY

January 9, 1997

Permissible AM Nighttime Radiation

Title: Fargo, ND

Frequency: 740 KHz (Canadian Clear Channel)

Database: FCC 12/16/96

Latitude: 46-58-29

Longitude: 96-30-12

-Theta-- Max					-Theta-- Max					-Theta-- Max					-Theta-- Max				
Az.	Min	Max	Radiat	Call	Az.	Min	Max	Radiat	Call	Az.	Min	Max	Radiat	Call	Az.	Min	Max	Radiat	Call
deg	deg	deg	(mV/m)	Sign	deg	deg	deg	(mV/m)	Sign	deg	deg	deg	(mV/m)	Sign	deg	deg	deg	(mV/m)	Sign
180	.0	.0	.0		225	.0	.0	.0		270	.0	.0	.0		315	.0	.0	*****	KFQD- 98
181	.0	.0	.0		226	.0	.0	.0		271	.0	.0	.0		316	.0	.0	873.3	WHITEHOR
182	1.6	5.0	*****	KKDA	227	2.4	6.0	709.3	KVFC	272	.0	.0	.0		317	.0	.0	*****	KFQD- 48
183	.0	.0	.0		228	.0	.0	.0		273	.0	.0	.0		318	.0	.0	*****	KFQD- 6
184	.0	.0	.0		229	.0	.0	.0		274	.0	.0	.0		319	.0	.0	.0	
185	.0	.0	.0		230	.0	.0	.0		275	.0	2.3	*****	KXL	320	.0	.0	.0	
186	.0	.0	.0		231	.0	.0	.0		276	.0	.0	.0		321	.0	.0	.0	
187	.0	.0	.0		232	.0	.0	.0		277	.0	.0	.0		322	.0	.0	.0	
188	.0	.0	.0		233	.0	.0	.0		278	.0	.0	.0		323	.0	.0	.0	
189	.0	.0	*****	XEFZ	234	.0	.0	.0		279	.0	.0	.0		324	.0	.0	.0	
190	.0	.0	.0		235	.0	.0	.0		280	3.2	7.2	9062.8	KERR	325	.0	.0	.0	
191	10.8	18.4	2141.6	KMMJ	236	.0	.0	.0		281	.0	.0	.0		326	.0	.0	.0	
192	.0	.0	.0		237	.0	.0	.0		282	.0	.0	.0		327	.0	.0	.0	
193	.0	.0	*****	XELTZ	238	.0	.4	*****	KBRT	283	.0	.0	.0		328	.0	.0	.0	
194	.0	.0	*****	XE-6	239	.0	.0	.0		284	.0	.0	.0		329	.0	.0	.0	
195	.0	.0	.0		240	2.6	6.4	7734.6	KOAL	285	.0	.0	.0		330	.0	.0	.0	
196	.0	.0	.0		241	.0	.0	.0		286	.0	.0	.0		331	.0	.0	.0	
197	.0	.0	.0		242	.0	.0	.0		287	.0	.0	.0		332	.0	.0	.0	
198	.0	.0	*****	XEVAY	243	.0	.0	.0		288	.0	.0	.0		333	.0	.0	.0	
199	.5	.5	*****	XE-19	244	.0	.0	.0		289	.0	.0	.0		334	.0	.0	.0	
200	.0	.0	.0		245	.0	.0	.0		290	.0	.0	.0		335	.0	.0	.0	
201	.0	.0	.0		246	.0	.0	.0		291	.0	.0	.0		336	.0	.0	.0	
202	.0	.0	.0		247	.0	.0	.0		292	1.8	1.8	592.6	ASHCROFT	337	.0	.0	.0	
203	.0	.0	.0		248	2.7	6.6	6216.0	KSVN	293	.0	.0	.0		338	.0	.0	.0	
204	.0	.0	.0		249	.0	.0	.0		294	.0	.0	.0		339	.0	.0	.0	
205	.8	3.9	4020.0	KATK	250	.0	.0	.0		295	.0	.0	.0		340	.0	.0	.0	
206	.0	.0	.0		251	.0	.0	.0		296	.0	.0	.0		341	.0	.0	.0	
207	.0	.0	*****	XE-3	252	.0	.0	.0		297	.0	.0	.0		342	.0	.0	.0	
208	6.5	12.0	3195.4	KLOE	253	.0	.0	.0		298	.0	.0	.0		343	.0	.0	.0	
209	.0	.0	*****	XEZA	254	.0	.0	.0		299	.0	.0	.0		344	.0	.0	.0	
210	.1	3.0	*****	KAMA	255	.0	.6	681.4	KCBS	300	.0	.0	.0		345	.0	.0	.0	
211	.0	.0	.0		256	.0	.0	.0		301	.0	.0	.0		346	.0	.0	.0	
212	.0	.0	.0		257	.0	.0	.0		302	.0	.0	.0		347	.0	.0	.0	
213	.0	.0	.0		258	.0	.0	.0		303	.0	.0	.0		348	.0	.0	.0	
214	.0	.0	.0		259	.0	.0	.0		304	.0	.0	.0		349	.0	.0	.0	
215	.0	.0	.0		260	.0	.0	.0		305	.0	.0	.0		350	.0	.0	.0	
216	1.6	5.0	*****	KDAZ	261	.0	.0	.0		306	.0	.0	.0		351	.0	.0	.0	
217	.0	.0	*****	XE-13	262	.0	.0	.0		307	4.7	4.7	193.7	CBX	352	.0	.0	.0	
218	.0	.0	.0		263	1.6	4.9	5730.2	KBSU	308	.0	.0	.0		353	.0	.0	.0	
219	.0	.0	.0		264	1.6	5.0	5751.3	KBSU	309	.0	.0	.0		354	.0	.0	.0	
220	5.0	9.8	383.8	KTWK	265	.0	.0	.0		310	.0	.0	.0		355	.0	.0	.0	
221	.0	.0	.0		266	6.7	12.3	2503.0	KUM	311	.0	.0	*****	KFQD-228	356	.0	.0	.0	
222	.0	.0	.0		267	.0	.0	.0		312	.0	.0	*****	KFQD-152	357	.0	.0	.0	
223	.0	.0	.0		268	.0	.0	.0		313	.0	.0	*****	KFQD-107	358	.0	.0	.0	
224	.0	.0	.0		269	.0	.0	.0		314	.0	.0	*****	KFQD-106	359	.0	.0	.0	

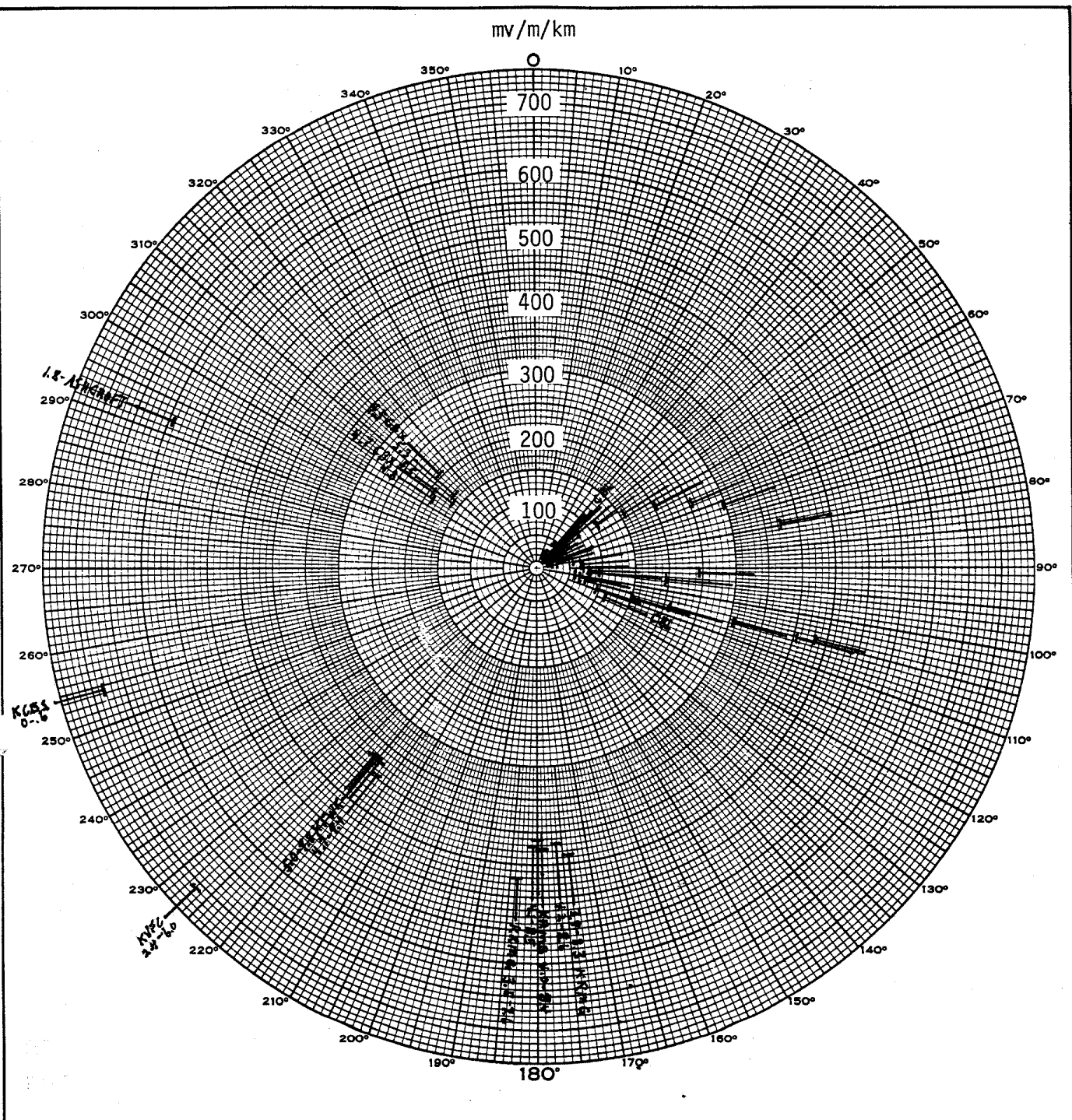
FIGURE 13

NIGHTTIME CLIPPING STUDY DATA SHEET

STATION Prop. New LOCATION Fargo, ND SITE: N 46° 58' 29" W 96° 30' 12" DATE 01-13-97

Call	Latitude	Longitude	Dist(km)	Bear(°T)	RSS	Req-Pro	θmin	θmax	MPL	SWF	Max mv/m @
CBL -0	54-03-01	79-49-03	1412.5	50.0	---	0.500	4.5	4.5	---	31.16	80.2s
-220	42-06-14	81-28-04	1306.0	109.0	---	0.728	5.4	5.4	---	38.08	95.6s
-230	41-42-05	82-44-50	1238.6	113.2	---	0.962	6.0	6.0	---	43.01	111.8s
-260	43-13-38	82-18-48	1186.9	105.4	---	0.706	6.5	6.5	---	47.00	75.1s
-280	43-51-04	82-10-46	1168.7	102.1	---	0.657	6.7	6.7	---	48.46	67.8s
-316	50-35-05	91-17-27	553.7	41.6	---	0.500	17.8	17.8	---	117.03	21.4s
-320	51-08-36	90-33-11	634.2	40.9	---	0.500	15.4	15.4	---	107.21	23.3s
-323	51-32-13	89-56-57	694.8	40.7	---	0.500	13.8	13.8	---	99.92	25.0s
-330	52-21-44	88-22-43	836.0	41.3	---	0.500	11.0	11.0	---	82.54	30.3s
-340	53-16-56	85-47-15	1034.9	43.4	---	0.500	8.2	8.2	---	60.62	41.2s
-350	53-51-20	82-53-09	1227.7	46.5	---	0.500	6.1	6.1	---	43.82	57.0s
CBL-A	44-05-10	81-45-32	1190.4	100.3	---	0.554	6.5	6.5	---	46.74	59.3s
-B	45-12-40	81-43-22	1154.6	94.4	---	0.805	6.8	6.8	---	49.64	81.1s
-C	45-53-25	83-29-23	1003.3	92.1	---	1.015	8.5	8.5	---	63.83	79.5s
-D	46-27-40	84-30-45	914.9	89.2	---	1.017	9.8	9.8	---	72.51	70.1
-E	46-58-45	84-46-18	889.1	85.7	---	1.006	10.2	10.2	---	75.42	66.7s
-F	47-42-50	85-56-30	799.3	80.2	---	0.951	11.7	11.7	---	86.50	55.0s
-G	48-00-00	89-30-23	537.7	75.2	---	0.731	18.4	18.4	---	119.16	30.7s
-H	48-07-00	90-44-00	451.1	71.5	---	0.658	22.0	22.0	---	132.59	24.8s
-I	48-05-50	91-33-30	391.5	69.6	---	0.608	25.2	25.2	---	145.50	20.9s
-J	48-13-30	92-22-47	338.9	64.3	---	0.557	28.7	28.7	---	159.66	17.4s
-K	48-28-10	92-41-00	330.5	58.4	---	0.527	29.4	29.4	---	162.52	16.2s
-L	48-37-40	93-05-05	314.5	53.0	---	0.500	30.6	30.6	---	167.94	14.9s
-M	49-00-00	92-49-14	354.6	49.2	---	0.500	27.6	27.6	---	154.73	16.2s
-N	49-30-00	92-24-49	412.9	45.7	---	0.500	24.0	24.0	---	140.65	17.8s
-O	50-00-00	91-56-27	475.4	43.3	---	0.500	20.9	20.9	---	128.43	19.5s
CBX	53-19-10	113-26-43	1393.0	306.6	2.801	1.253	4.7	4.7	---	32.34	193.7f
Pt.A	54-56-22	112-26-50	1419.5	314.4	2.801	1.253	4.5	4.5	---	30.79	203.5f
Pt.B	53-57-30	111-32-08	1312.7	311.8	2.801	1.253	5.3	5.3	---	37.62	166.5f
Pt.C	53-04-46	111-55-25	1289.7	307.4	2.801	1.253	5.5	5.5	---	39.24	159.7f
Pt.D	52-39-43	113-40-27	1379.8	303.6	2.801	1.253	4.8	4.8	---	33.20	188.7f
KTWK	39-05-02	104-42-41	1110.8	220.1	9.158	2.289	5.0	9.8	52.5	29.83	383.8
Pt.A	38-40-20	104-28-15	1127.5	217.9	9.158	2.289	4.7	9.4	52.3	28.82	397.1
Pt.B	39-03-45	104-29-55	1092.6	219.3	9.158	2.289	5.0	9.9	52.5	30.24	378.5
Pt.C	39-16-15	104-37-55	1079.8	220.5	9.158	2.289	5.2	10.0	52.6	30.74	372.3
Pt.D	39-16-45	104-46-15	1085.9	221.0	9.158	2.289	5.1	10.0	52.6	30.43	376.1
KRMG	36-04-50	96-17-09	1211.3	179.1	8.981	2.245	4.0	8.4	51.5	26.32	426.6
Pt.A	36-01-00	95-03-30	1224.2	173.9	8.981	2.245	3.9	8.3	51.5	25.75	435.9
Pt.B	36-14-45	95-36-10	1195.2	176.1	8.981	2.245	4.2	8.6	51.6	26.81	418.7
Pt.C	36-19-05	96-29-10	1184.8	179.9	8.981	2.245	4.3	8.7	51.6	27.27	411.6
Pt.D	36-09-10	96-42-50	1203.3	180.9	8.981	2.245	4.1	8.5	51.5	26.62	421.7
Pt.E	35-23-25	97-22-45	1290.0	183.6	8.981	2.245	3.5	7.6	51.1	23.87	470.3

FIGURE 14



NIGHTTIME PROTECTION CONSTRAINTS

STATION Proposed New

LOCATION Fargo, ND

FREQUENCY 740 kHz.

POWER

LATITUDE N 46° 58' 29"

LONGITUDE W 96° 30' 12"

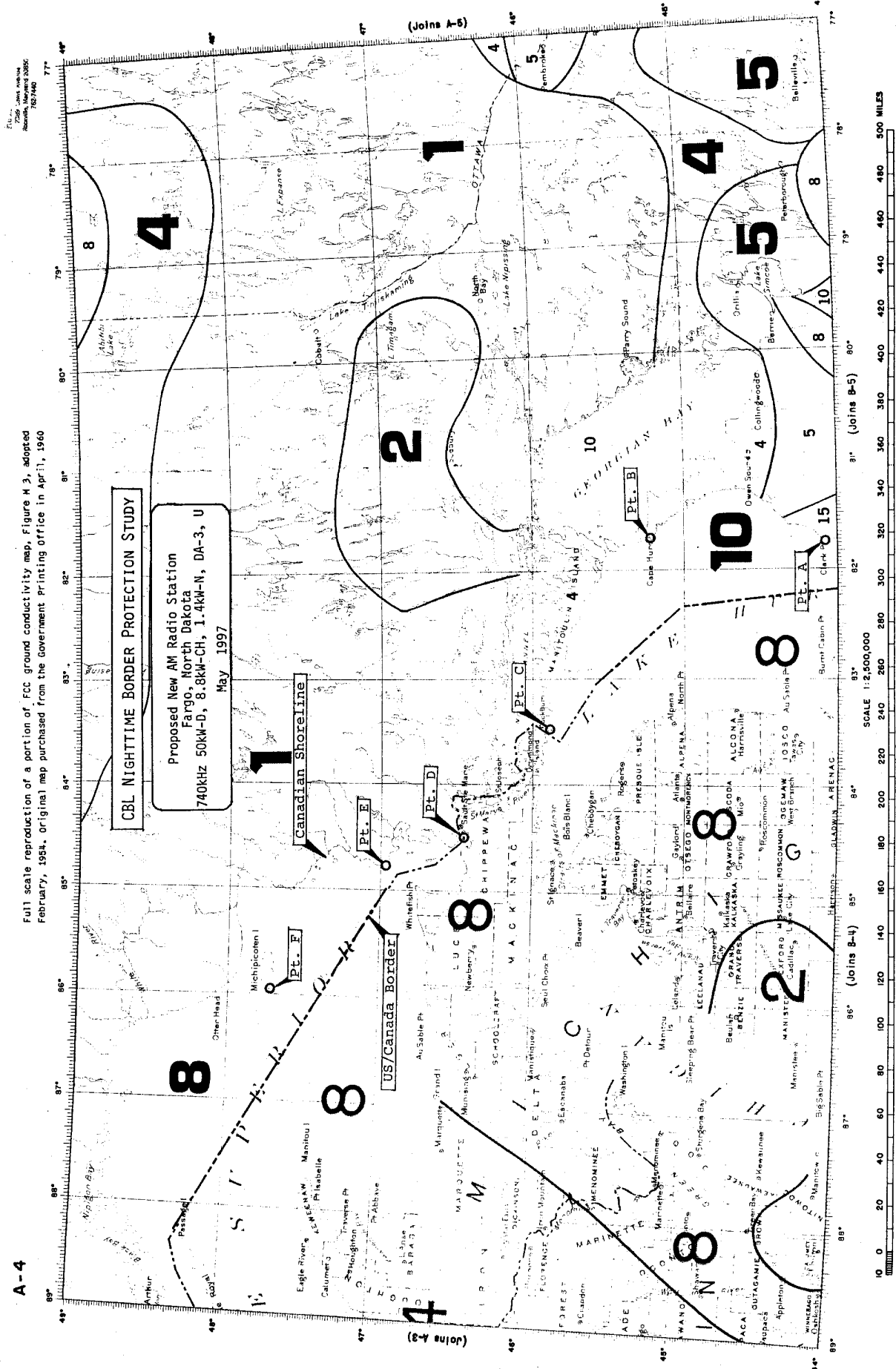
MODE Nighttime

PATTERN -----

DATE January 21, 1997

INDEPENDENT BROADCAST CONSULTANTS
TRUMANSBURG, NEW YORK

FIGURE 15A



STUDIO PRINTING, INC.
2000 West 10th Avenue
Boulder, Colorado 80502
762-7440

A-3 Full scale reproduction of a portion of FCC ground conductivity map, Figure M-3, adopted February, 1954. Original map purchased from the Government Printing Office in April, 1960

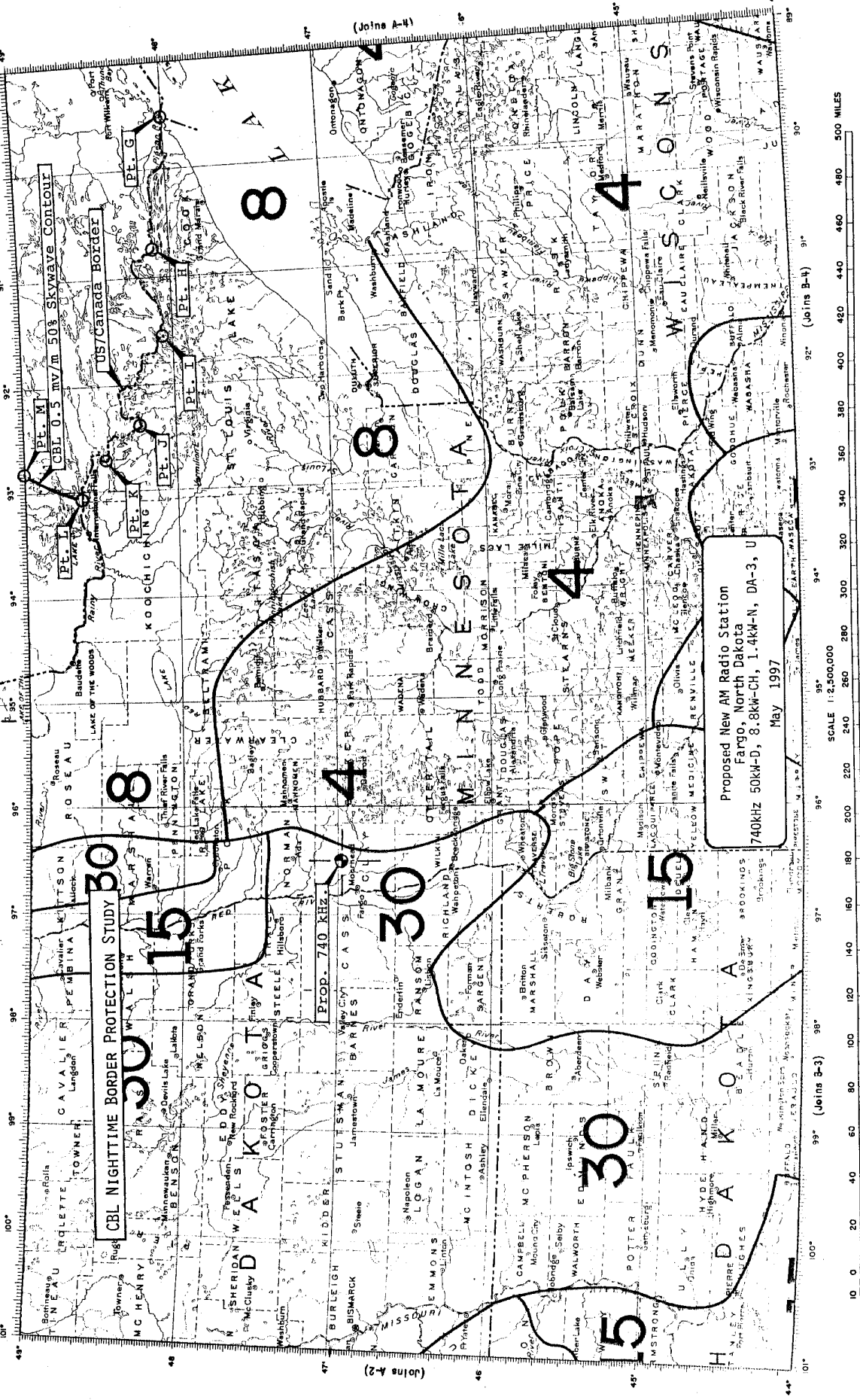
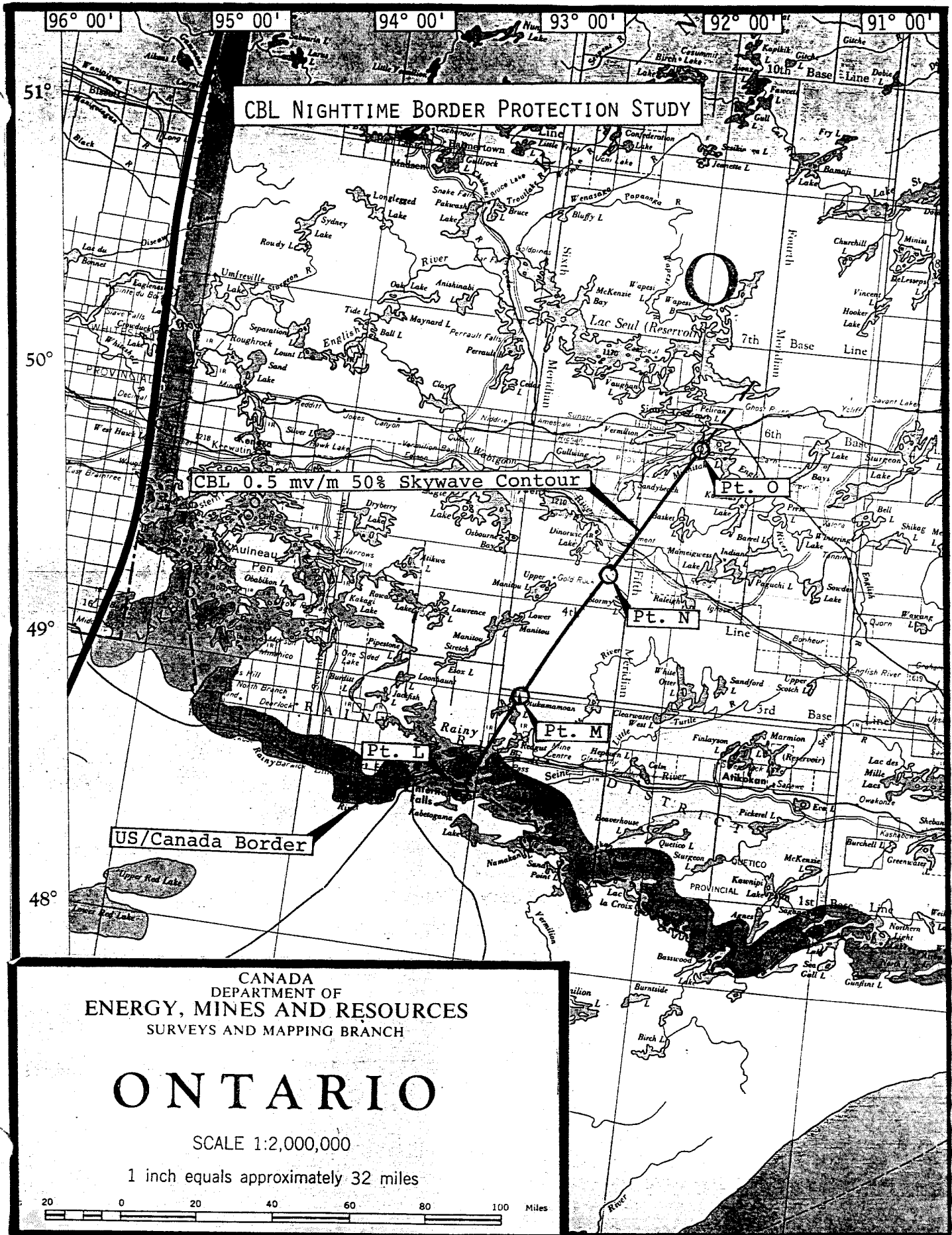


FIGURE 15B

FIGURE 15C



STUDIO PRINTING, INC.
1000 North Broadway
Rochester, New York 14609
716-244-1400

A-3 Full scale reproduction of a portion of FCC ground conductivity map, Figure M-3, adopted February, 1984. Original map purchased from the Government Printing Office in April, 1980

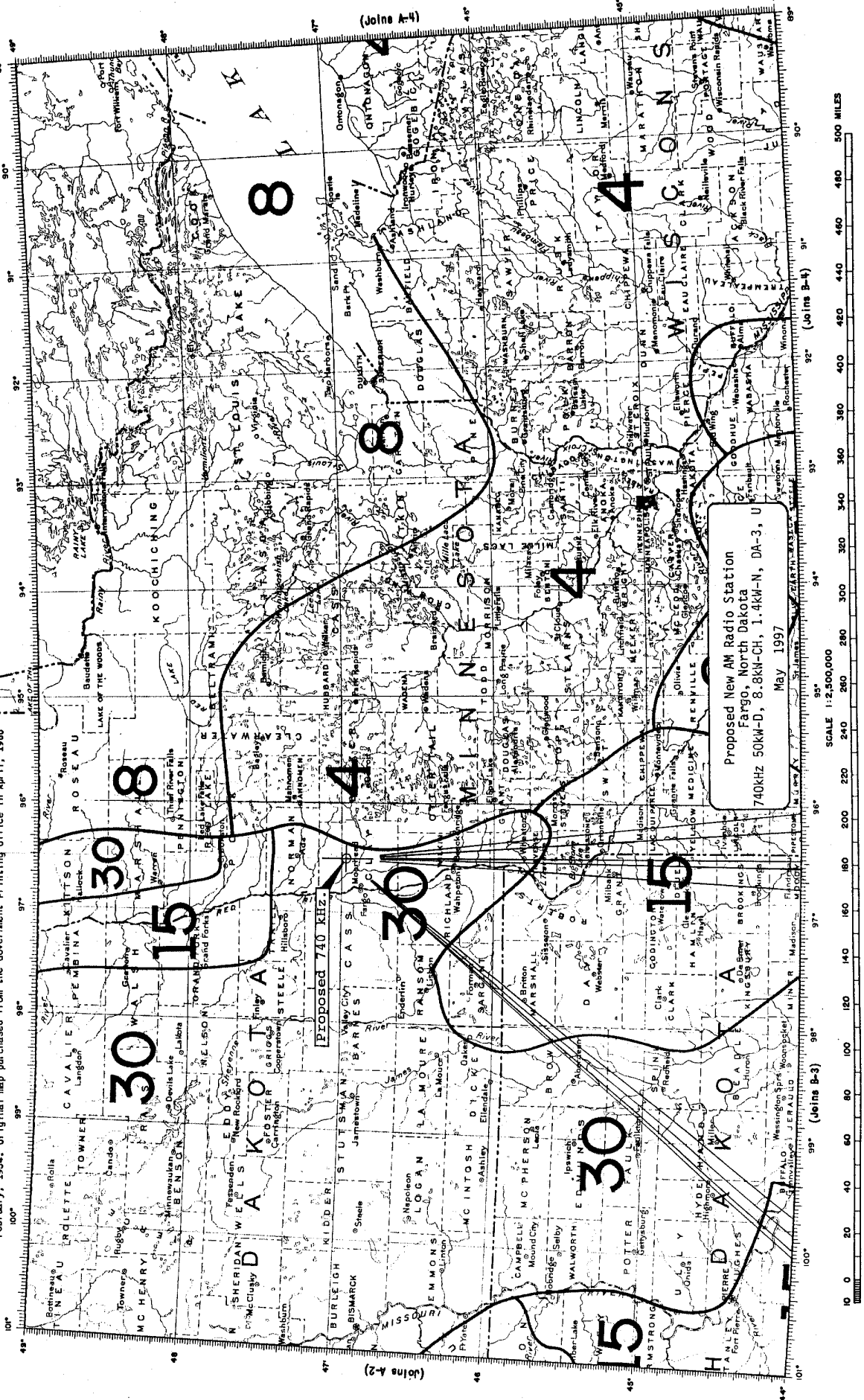


FIGURE 16A

FIGURE 16B

STUDIO PRINTING, INC.
2307 LEXIS AVENUE
NORTH PLATTE, NEBRASKA 68901
(402) 635-0885

Full scale reproduction of a portion of FCC ground conductivity map, Figure M-3, adopted February, 1954. Original map purchased from the Government Printing Office in April, 1960

B-3

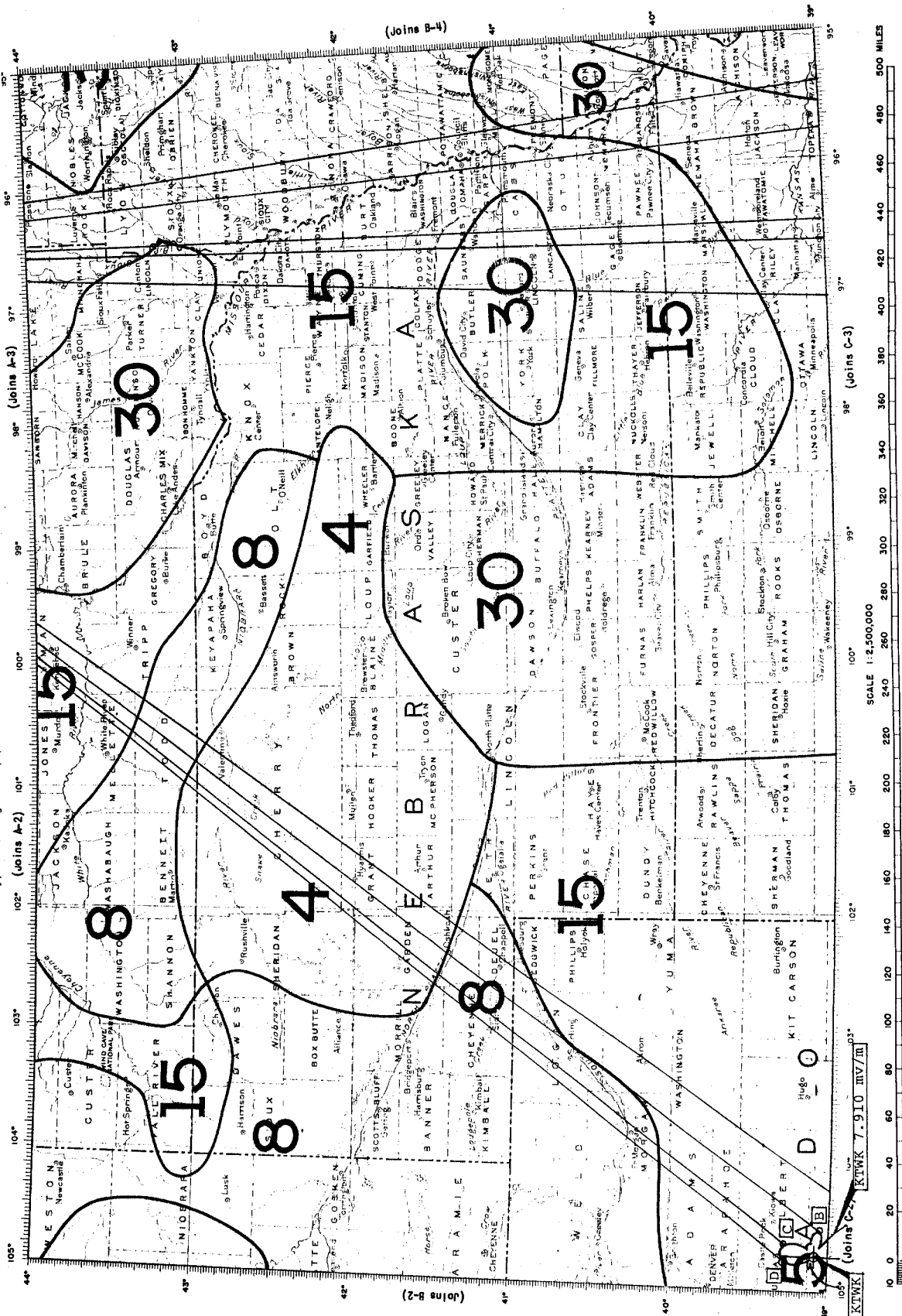


FIGURE 16C

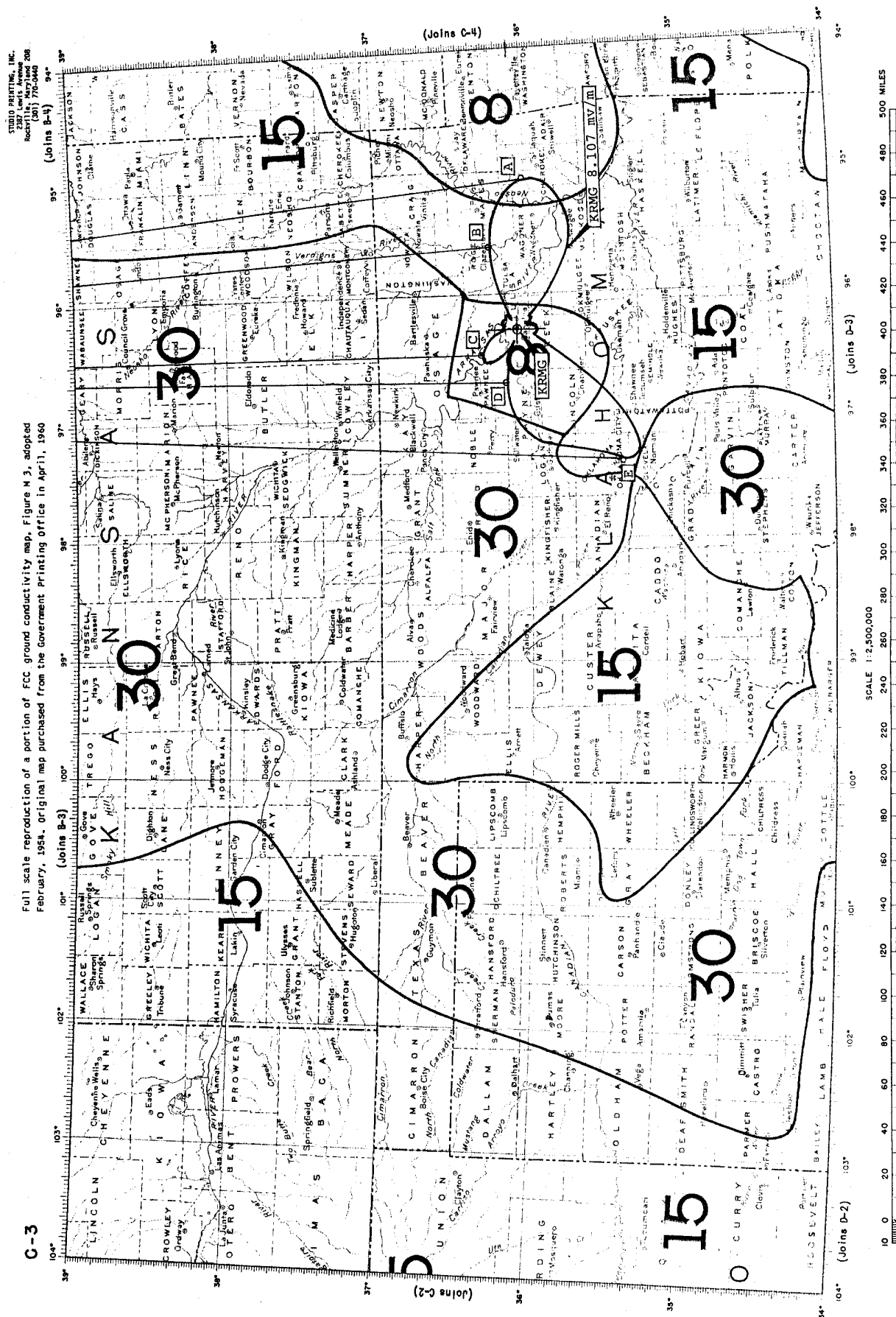


FIGURE 16D

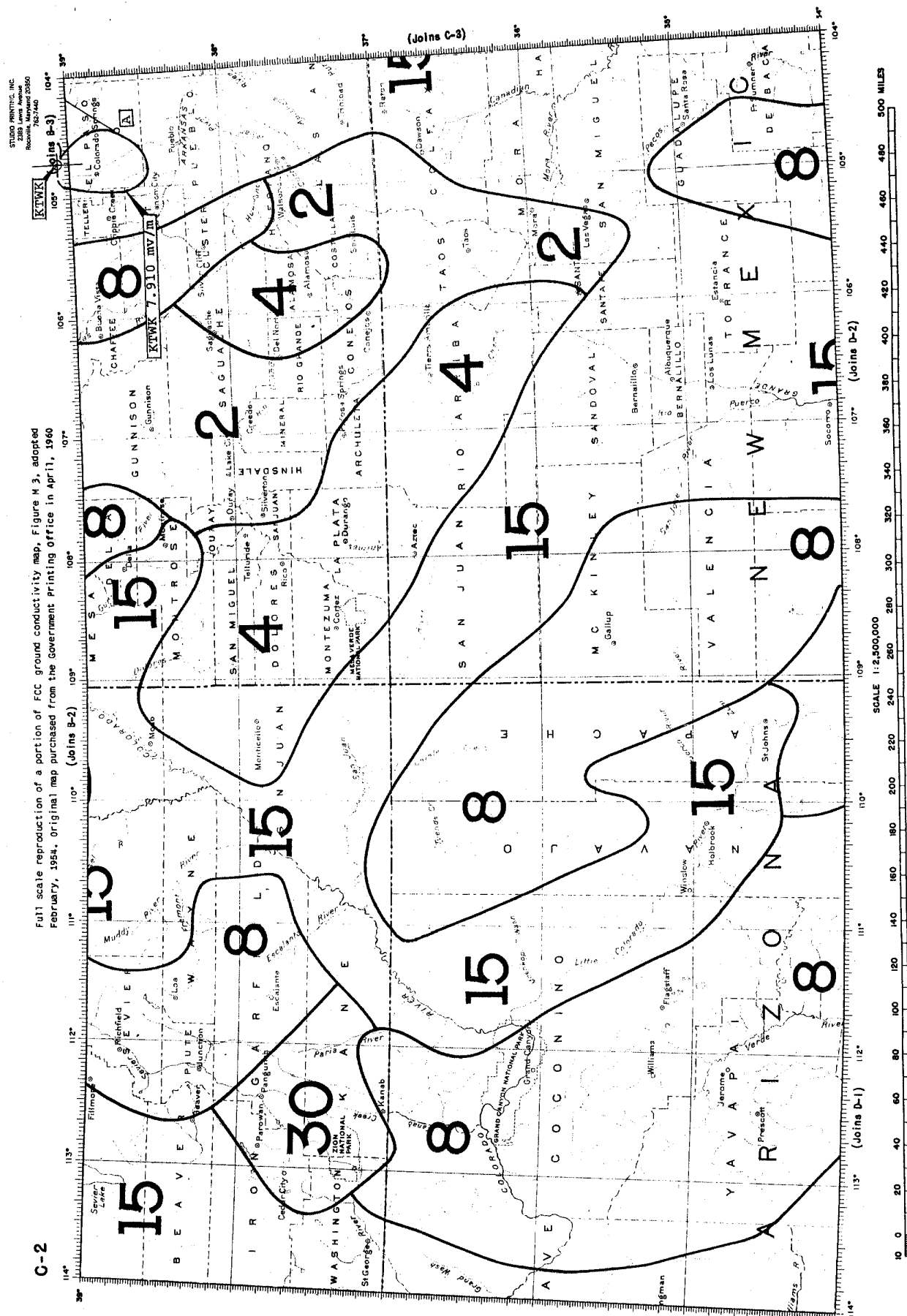


FIGURE 16E

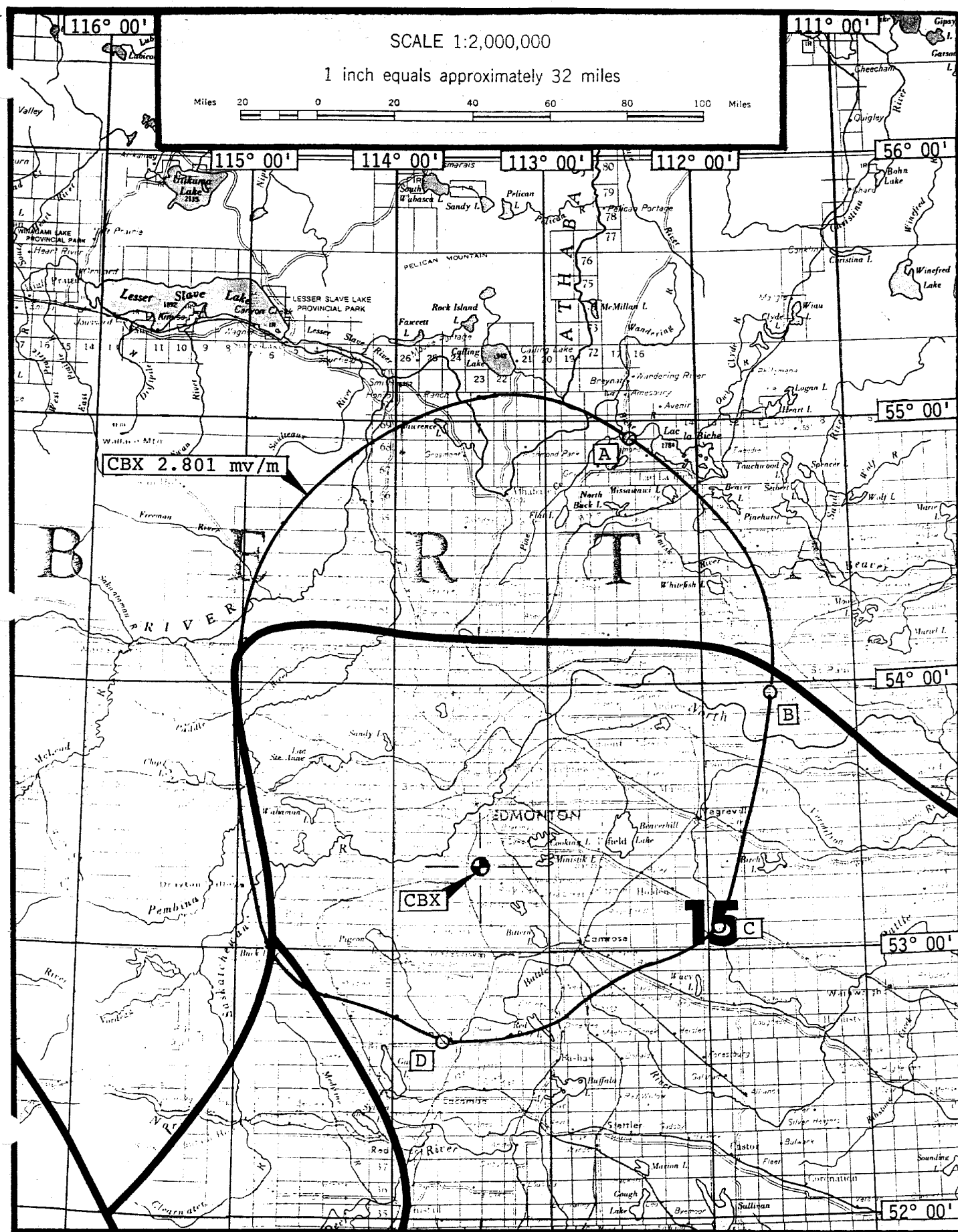


FIGURE 17A

INDEPENDENT BCST CONSULTANTS, INC.
TRUMANSBURG, NEW YORK

NO. OF TOWERS: 6
POWER: 1400 WATTS

MODE: NIGHTTIME
DATE: 01-21-97

TOWER NO.	HEIGHT			FIELD	SPACING			BEARING	PHASING
	{DEG}	{FT}	{M}		{DEG}	{FT}	{M}	{DEG T}	{DEG}
1	81.3	300.0	91.4	1.000	0.0	0.0	0.0	0.0	0.0
2	81.3	300.0	91.4	0.519	119.8	442.3	134.8	26.9	-113.2
3	81.3	300.0	91.4	1.394	235.7	870.2	265.2	19.6	+68.4
4	81.3	300.0	91.4	1.338	289.2	1067.7	325.4	31.5	-178.5
5	81.3	300.0	91.4	0.762	178.4	658.7	200.8	43.2	-9.5
6	81.3	300.0	91.4	0.931	84.0	310.1	94.5	76.3	+123.5

THEOR. VECTOR CONSTANT WITH 1 OHM LOSS/TOWER: 231.12 MV/M/KM

THEOR. HORIZ. PLANE RMS WITH 1 OHM LOSS/TOWER: 351.00 MV/M/KM

THEOR. RSS WITH 1 OHM LOSS/TOWER: 586.99 MV/M/KM

Q: 14.67

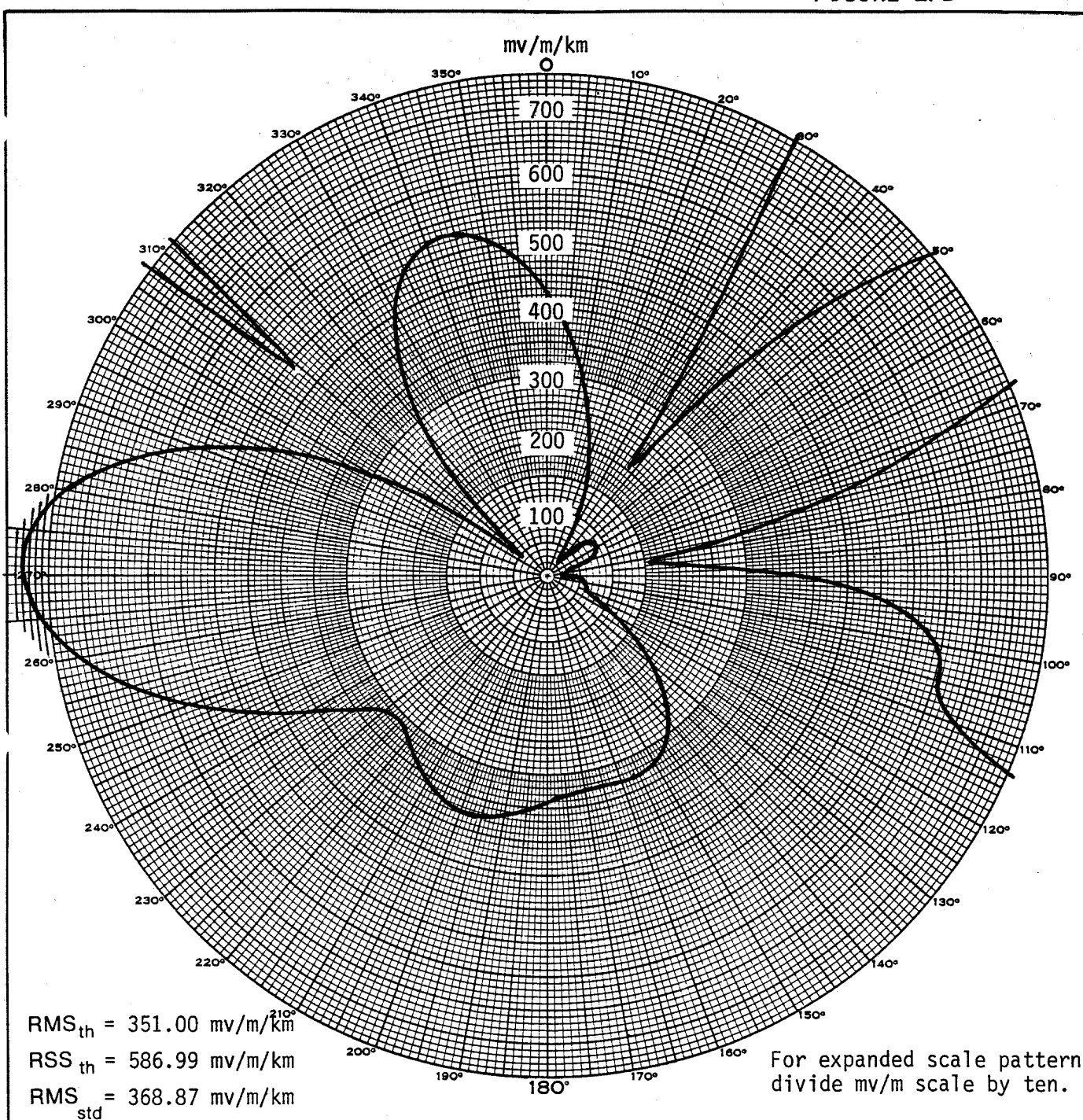
RMS OF STANDARD PATTERN: 368.87 MV/M/KM

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

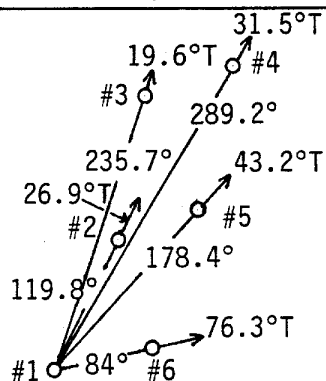
F.C.C. STANDARD HORIZONTAL PLANE RADIATION

TRUE BEARING DEGREES	FIELD MV/M	TRUE BEARING DEGREES	FIELD MV/M	TRUE BEARING DEGREES	FIELD MV/M	TRUE BEARING DEGREES	FIELD MV/M
0.0	424.50	90.0	38.17	180.0	340.18	270.0	782.63
5.0	369.09	95.0	52.31	185.0	352.44	275.0	773.60
10.0	308.97	100.0	59.12	190.0	364.67	280.0	732.20
15.0	247.07	105.0	60.54	195.0	373.51	285.0	658.80
20.0	185.88	110.0	65.01	200.0	376.23	290.0	556.42
25.0	127.61	115.0	83.78	205.0	371.22	295.0	430.62
30.0	74.52	120.0	118.33	210.0	358.45	300.0	289.23
35.0	31.20	125.0	162.01	215.0	340.02	305.0	143.20
40.0	27.21	130.0	207.91	220.0	321.05	310.0	51.42
45.0	53.83	135.0	250.42	225.0	310.31	315.0	162.08
50.0	74.96	140.0	285.44	230.0	318.66	320.0	281.46
55.0	86.56	145.0	310.53	235.0	353.20	325.0	380.81
60.0	88.05	150.0	325.17	240.0	412.30	330.0	455.40
65.0	79.92	155.0	330.70	245.0	487.76	335.0	503.85
70.0	63.65	160.0	330.16	250.0	569.54	340.0	526.93
75.0	41.89	165.0	327.59	255.0	648.02	345.0	526.96
80.0	20.29	170.0	327.00	260.0	714.52	350.0	507.30
85.0	20.36	175.0	331.07	265.0	761.47	355.0	471.82

FIGURE 17B



PROPOSED NIGHTTIME HORIZONTAL PLANE STANDARD PATTERN



- 1) 1.000/+0.0°
- 2) 0.519/-113.2°
- 3) 1.394/+68.4°
- 4) 1.338/-178.5°
- 5) 0.762/-9.5°
- 6) 0.931/+123.5°

$$G = 81.3^\circ = 300' = 91.4\text{m}$$

STATION	Proposed New
LOCATION	Fargo, ND
FREQUENCY	740 kHz.
POWER	1400 watts
LATITUDE	N 46° 58' 29"
LONGITUDE	W 96° 30' 12"
MODE	Nighttime
PATTERN	415004-N-P
DATE	01-21-97

INDEPENDENT BROADCAST CONSULTANTS
 TRUMANSBURG, NEW YORK

FIGURE 18 PAGE 1

INDEPENDENT BCST CONSULTANTS, INC.
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 ----
.0	424.50	421.40	412.08	396.50	374.67	346.68	312.85
5.0	369.09	366.90	360.24	348.94	332.71	311.31	284.62
10.0	308.97	307.67	303.63	296.52	285.85	271.05	251.61
15.0	247.07	246.60	245.04	241.94	236.61	228.20	215.84
20.0	185.88	186.19	186.93	187.55	187.20	184.78	179.12
25.0	127.61	128.61	131.40	135.37	139.53	142.58	143.06
30.0	74.52	76.07	80.53	87.30	95.33	103.16	109.07
35.0	31.20	32.69	37.45	45.61	56.35	67.96	78.38
40.0	27.21	25.21	20.50	18.38	25.51	38.51	52.08
45.0	53.83	50.85	42.34	29.75	17.16	17.89	31.28
50.0	74.96	71.71	62.33	47.97	30.73	15.44	17.53
55.0	86.56	83.24	73.67	58.96	40.96	22.69	12.79
60.0	88.05	84.85	75.63	61.48	44.18	26.34	13.47
65.0	79.92	77.02	68.69	55.97	40.56	24.91	13.71
70.0	63.65	61.23	54.31	43.86	31.49	19.66	12.97
75.0	41.89	40.13	35.14	27.87	19.97	14.25	13.64
80.0	20.29	19.50	17.47	15.21	14.50	15.52	17.12
85.0	20.36	20.57	21.16	21.96	22.74	22.69	21.66
90.0	38.17	37.91	37.06	35.49	33.05	29.61	25.29
95.0	52.31	51.50	49.10	45.20	39.98	33.86	27.74
100.0	59.12	57.98	54.65	49.47	43.07	36.56	31.76
105.0	60.54	59.41	56.23	51.62	46.68	43.04	42.40
110.0	65.01	64.35	62.62	60.53	59.15	59.51	62.16
115.0	83.78	83.67	83.48	83.62	84.54	86.59	89.72
120.0	118.33	118.37	118.56	119.01	119.85	121.09	122.57
125.0	162.01	161.89	161.55	161.00	160.28	159.32	157.98
130.0	207.91	207.49	206.24	204.18	201.35	197.72	193.22
135.0	250.42	249.70	247.56	244.04	239.21	233.12	225.76
140.0	285.44	284.50	281.70	277.12	270.85	262.96	253.52
145.0	310.53	309.49	306.38	301.29	294.32	285.55	275.05
150.0	325.17	324.12	321.01	31.592	308.97	300.23	289.72
155.0	330.70	329.70	326.73	321.94	315.46	307.40	297.73
160.0	330.16	329.15	326.22	321.60	315.60	308.40	300.00
165.0	327.59	326.42	323.09	318.08	311.97	305.25	298.02
170.0	327.00	325.44	321.05	314.67	307.41	300.22	293.54
175.0	331.07	328.87	322.73	313.92	304.22	295.33	288.22

FIGURE 18 PAGE 2

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
.0	273.79	230.53	184.52	137.68	92.31	50.97
5.0	252.79	216.36	176.36	134.36	92.44	53.15
10.0	227.23	197.97	164.44	127.82	89.99	53.38
15.0	198.81	176.76	149.83	118.86	85.46	51.96
20.0	169.12	154.01	123.55	108.22	79.37	49.20
25.0	139.55	130.91	116.53	96.58	72.18	45.39
30.0	111.33	106.47	99.59	84.58	64.33	40.82
35.0	85.51	87.58	83.43	72.73	56.21	35.72
40.0	62.97	68.96	68.62	61.46	48.10	30.33
45.0	44.43	53.13	55.56	51.08	40.25	24.81
50.0	30.42	40.43	44.49	41.79	32.80	19.32
55.0	21.21	30.97	35.50	33.63	25.84	14.12
60.0	16.44	24.54	28.44	26.58	19.47	9.80
65.0	14.78	20.61	23.02	20.52	13.91	8.22
70.0	14.25	18.40	18.85	15.46	10.18	11.03
75.0	15.99	17.18	15.63	11.99	10.67	16.50
80.0	17.70	16.41	13.61	11.96	15.64	23.29
85.0	19.33	16.16	14.16	16.56	23.14	31.04
90.0	20.72	17.71	19.03	24.72	32.37	39.70
95.0	23.43	23.45	28.27	35.60	43.15	49.29
100.0	30.90	34.70	41.45	48.92	55.43	59.78
105.0	45.44	51.26	58.14	64.50	69.13	71.12
110.0	66.78	72.43	77.90	82.09	84.02	83.19
115.0	93.52	97.27	100.12	101.26	100.00	95.81
120.0	123.91	124.57	123.96	121.45	116.51	108.75
125.0	155.98	152.95	148.43	141.99	133.20	121.77
130.0	187.69	180.88	172.48	162.15	149.60	134.59
135.0	217.08	206.91	195.05	181.25	165.26	146.94
140.0	242.50	229.80	215.25	198.65	179.80	158.59
145.0	262.78	248.62	232.40	213.88	192.89	169.35
150.0	277.35	262.90	246.10	226.66	204.34	179.10
155.0	286.24	272.58	256.28	236.89	214.08	187.78
160.0	290.07	278.03	263.15	244.69	222.15	195.40
165.0	289.88	279.97	267.15	250.33	228.70	202.03
170.0	286.96	279.31	268.94	254.24	234.01	207.81
175.0	282.63	277.06	269.26	256.92	238.37	212.92

FIGURE 18 PAGE 3

INDEPENDENT BCST CONSULTANTS, INC.
TRUMANSBURG, NEW YORK

TRUE BEARING DEGREES	FCC STD. RAD. {AT 1KM } 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
180.0	340.18	337.18	328.79	316.75	303.57	291.84	283.30
185.0	352.44	348.61	337.87	322.35	305.23	290.04	279.45
190.0	364.67	360.12	347.28	328.60	307.84	289.37	276.73
195.0	373.51	368.41	354.02	333.01	309.59	288.80	274.91
200.0	376.23	370.83	355.63	333.48	308.93	287.45	273.83
205.0	371.22	365.84	350.74	328.93	305.21	285.25	273.83
210.0	358.45	353.45	339.52	319.82	299.22	283.28	276.05
215.0	340.02	335.82	324.32	308.68	293.61	283.96	282.49
220.0	321.05	318.11	310.34	300.67	293.10	291.08	295.62
225.0	310.31	308.99	305.88	303.19	303.57	308.56	317.53
230.0	318.66	318.91	320.12	323.41	329.68	338.80	349.06
235.0	353.20	354.39	358.04	364.18	372.41	381.48	389.28
240.0	412.30	413.56	417.17	422.55	428.62	433.73	435.73
245.0	487.76	488.39	490.01	491.88	492.76	491.04	484.87
250.0	569.54	569.12	567.63	564.39	558.35	548.21	532.61
255.0	648.02	646.39	641.34	632.40	618.85	599.86	574.65
260.0	714.52	711.71	703.20	688.75	668.06	640.82	606.82
265.0	761.47	757.64	746.17	727.07	700.42	666.41	625.37
270.0	782.63	778.08	764.51	742.15	711.40	672.84	627.24
275.0	773.60	768.71	754.16	730.32	697.82	657.49	610.37
280.0	732.20	727.40	713.13	689.84	658.22	619.21	573.93
285.0	658.80	654.53	641.85	621.16	593.10	558.52	518.44
290.0	556.42	553.09	543.18	526.98	504.94	477.66	445.84
295.0	430.62	428.56	422.38	412.18	398.13	380.42	359.35
300.0	289.23	288.62	286.76	283.51	278.67	272.01	263.27
305.0	143.20	144.01	146.36	149.97	154.38	158.94	162.90
310.0	51.42	50.15	47.14	44.78	46.51	54.18	66.33
315.0	162.08	158.10	146.46	128.04	104.28	77.14	49.49
320.0	261.46	276.35	261.34	237.39	206.03	169.25	129.33
325.0	380.81	374.94	357.65	329.95	293.43	250.17	202.63
330.0	455.40	449.12	430.63	400.88	361.42	314.31	261.99
335.0	503.85	497.53	478.86	448.71	408.48	360.06	305.74
340.0	526.93	520.88	502.96	473.89	434.84	387.44	333.69
345.0	526.96	521.43	505.01	478.24	442.01	397.59	346.63
350.0	507.30	502.48	488.12	464.56	432.40	392.50	346.10
355.0	471.82	467.83	455.90	436.16	408.91	374.64	334.10

FIGURE 18 PAGE 4

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 ----
180.0	278.02	274.20	268.86	258.93	242.16	217.56
185.0	273.96	271.53	268.47	260.84	245.76	221.96
190.0	270.96	269.83	268.78	263.17	249.52	226.31
195.0	269.34	269.55	270.38	266.42	253.79	230.82
200.0	269.44	271.37	273.84	271.02	258.84	235.64
205.0	271.87	275.87	279.68	277.35	264.90	240.87
210.0	277.63	283.81	288.36	285.65	272.10	246.55
215.0	286.02	295.90	300.24	296.07	280.45	252.68
220.0	304.38	312.70	315.45	308.57	289.85	259.14
225.0	327.54	334.36	333.84	322.90	300.08	265.74
230.0	357.46	360.47	354.90	338.57	310.73	272.23
235.0	393.06	389.98	377.71	354.85	321.30	278.26
240.0	432.29	421.25	401.00	370.83	331.14	283.43
245.0	472.43	452.19	423.23	385.40	339.52	287.31
250.0	510.31	480.44	442.67	397.38	345.68	289.43
255.0	542.61	503.50	457.54	405.54	348.86	289.35
260.0	566.10	518.96	466.14	408.76	348.33	286.68
265.0	577.86	524.69	466.97	406.05	343.52	281.10
270.0	575.56	518.99	458.87	396.68	333.99	272.39
275.0	557.68	500.79	441.14	380.23	319.53	260.46
280.0	523.65	469.75	413.62	356.65	300.17	245.37
285.0	473.99	426.35	376.73	326.31	276.17	227.31
290.0	410.31	371.90	331.49	289.94	248.07	206.63
295.0	335.23	308.45	279.44	248.66	216.61	183.80
300.0	252.22	236.67	222.54	203.84	182.71	159.41
305.0	165.41	165.70	163.09	157.09	147.44	134.10
310.0	80.16	93.20	103.62	110.12	111.90	108.55
315.0	27.89	29.48	47.40	64.77	77.23	83.47
320.0	88.79	50.45	19.98	24.23	44.63	59.51
325.0	153.41	105.21	60.68	23.14	16.46	37.33
330.0	207.14	152.52	100.85	54.67	17.19	17.83
335.0	248.10	189.88	133.83	82.56	38.51	7.58
340.0	275.93	216.75	158.82	104.78	57.13	18.45
345.0	291.12	233.34	175.81	121.11	71.78	30.26
350.0	294.76	240.40	185.24	131.72	82.36	39.69
355.0	288.40	239.02	187.83	137.04	89.09	46.55

FIGURE 19 PAGE 1

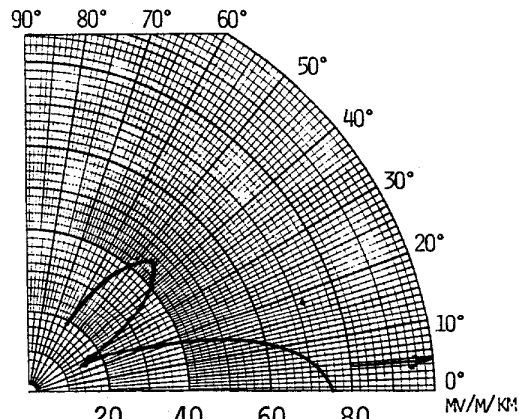
INDEPENDENT BCST CONSULTANTS, INC.,
TRUMANSBURG, NEW YORK

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
50.0	74.96	71.71	62.33	47.97	30.73	15.44	17.53
109.0	63.26	62.48	60.39	57.72	55.62	55.30	57.51
113.2	75.00	74.72	74.09	73.63	74.02	75.79	79.05
105.4	60.62	59.52	56.41	51.94	47.24	43.94	43.64
102.1	60.05	58.87	55.44	50.23	44.08	38.39	35.16
41.6	35.54	33.02	26.19	18.32	18.96	30.68	44.77
40.9	31.76	29.42	23.32	17.64	21.50	33.99	47.89
40.7	30.70	28.44	22.59	17.64	22.32	34.97	48.81
41.3	33.90	31.46	24.91	17.91	19.98	32.07	46.09
43.4	45.43	42.62	34.67	23.49	15.71	23.11	37.26
46.5	61.07	57.98	49.11	35.74	20.78	14.81	26.32
100.3	59.31	58.15	54.80	49.60	43.20	36.76	32.16
94.4	50.98	50.23	47.99	44.33	39.38	33.49	27.45
92.1	44.92	44.41	42.86	40.23	36.49	31.75	26.39
89.2	35.37	35.20	34.62	33.48	31.55	28.66	24.81
85.7	22.65	22.83	23.31	23.88	24.18	23.77	22.25
80.2	19.64	18.90	17.04	15.15	14.61	15.74	17.29
75.2	40.97	39.23	34.34	27.21	19.54	14.12	13.73
71.5	57.54	55.30	48.89	39.29	28.07	17.78	12.90
69.6	65.20	62.73	55.68	45.02	32.36	20.16	13.02
64.3	81.59	78.64	70.15	57.18	41.44	25.39	13.77
58.4	88.66	85.41	76.01	61.59	43.93	25.74	13.13
53.0	83.13	79.82	70.25	55.56	37.67	19.93	13.62
49.2	72.19	68.96	59.66	45.47	28.54	14.54	19.16
45.7	57.29	54.26	45.56	32.57	18.69	16.20	28.88
43.3	44.89	42.09	34.18	23.12	15.74	23.49	37.66
306.6	99.21	100.30	103.54	108.75	115.54	123.25	130.95
314.4	146.93	143.11	131.98	114.39	91.82	66.36	41.49
311.8	82.83	79.97	71.76	59.46	45.71	36.24	38.92
307.4	79.26	80.34	83.65	89.21	96.80	105.79	115.20
303.6	183.60	184.06	185.32	187.14	189.09	190.61	191.08
220.1	320.72	317.81	310.13	300.59	293.18	291.32	295.96
217.9	328.60	325.08	315.59	303.22	292.32	287.04	289.14
219.3	323.45	320.30	311.94	301.34	292.65	289.54	293.29
220.5	319.43	316.64	309.31	300.32	293.56	292.31	297.39
221.0	317.90	315.26	308.38	300.08	294.13	293.64	299.25
179.1	338.23	335.38	327.41	315.99	303.49	292.33	284.12
173.9	329.72	327.68	321.97	313.78	304.72	296.31	289.39
176.1	332.68	330.31	323.70	314.24	303.84	294.41	287.07
179.9	339.96	336.97	328.63	316.66	303.56	291.89	283.39
180.9	342.24	339.08	330.27	317.61	303.73	291.39	282.52
183.6	348.86	345.26	335.17	320.61	304.60	290.39	280.41

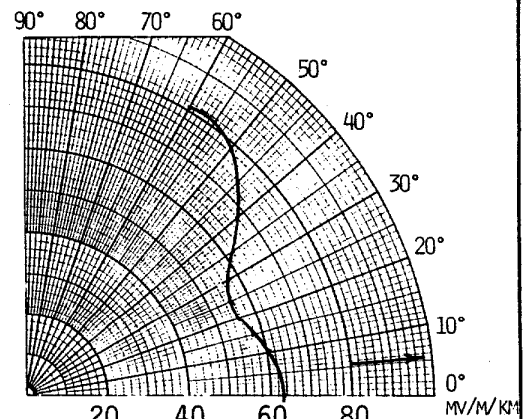
INDEPENDENT BCST CONSULTANTS, INC.

TRUMANSBURG, NEW YORK

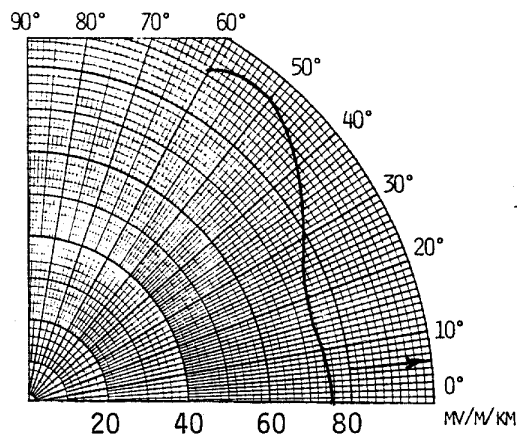
TRUE BEARING DEGREES	FCC STD. RAD. {AT 1 KM} AT VERTICAL ANGLES THETA {DEGREES}					
	35.00 MV/M	40.00 MV/M	45.00 MV/M	50.00 MV/M	55.00 MV/M	60.00 MV/M
50.0	30.42	40.43	44.49	41.79	32.80	19.32
109.0	62.03	67.87	73.73	78.43	81.00	80.73
113.2	63.38	87.97	91.88	94.21	94.18	91.22
105.4	46.92	52.79	59.61	65.64	70.29	72.06
102.1	36.12	41.04	48.05	55.20	61.02	64.45
41.6	56.57	63.57	64.23	58.03	45.55	28.57
40.9	59.32	65.29	66.13	59.52	46.66	29.34
40.7	60.12	66.56	66.67	59.53	46.78	29.56
41.3	57.75	64.55	65.04	58.67	46.03	28.90
43.4	49.89	57.86	59.53	54.29	42.72	26.56
46.5	39.73	48.98	52.02	48.18	37.96	23.15
100.3	31.57	35.55	42.35	49.79	56.21	60.44
94.4	22.93	22.48	26.94	34.16	41.77	48.09
92.1	21.53	19.49	22.38	23.98	36.71	43.62
89.2	20.48	17.25	17.91	23.22	30.79	38.26
85.7	19.53	16.22	14.56	17.52	24.34	32.20
80.2	17.77	16.39	13.57	12.06	15.90	23.52
75.2	16.05	17.14	15.53	11.91	10.60	16.75
71.5	15.10	17.96	17.79	14.20	9.78	12.48
69.6	14.80	18.52	19.15	15.82	10.36	10.68
64.3	14.89	21.03	23.70	21.31	14.62	8.13
58.4	17.55	26.30	30.50	28.72	21.44	11.01
53.0	24.32	34.37	38.85	36.76	28.56	16.14
49.2	32.34	42.25	46.12	43.20	33.96	20.19
45.7	42.18	51.15	53.88	49.72	39.18	24.03
43.3	50.24	58.17	59.78	54.50	42.88	26.69
306.6	137.63	142.25	143.93	142.00	136.04	125.92
314.4	26.70	35.55	53.78	70.05	81.31	86.43
311.8	52.13	68.23	82.76	93.50	99.26	99.44
307.4	123.85	130.58	134.38	134.46	130.34	121.82
303.6	189.83	186.28	179.85	170.28	157.39	141.24
220.1	304.77	312.08	315.79	308.84	290.05	259.27
217.9	296.71	305.04	308.65	303.08	285.79	256.40
219.3	301.69	310.05	313.12	306.71	288.48	258.22
220.5	306.38	314.65	317.15	309.93	290.84	259.80
221.0	308.45	316.64	318.88	311.31	291.34	260.46
179.1	278.83	274.72	268.95	258.60	241.51	216.75
173.9	283.64	277.64	269.28	256.41	237.47	211.84
176.1	281.61	276.45	269.20	257.40	239.24	213.97
179.9	278.11	274.25	268.87	258.90	242.09	217.47
180.9	277.23	273.68	268.77	259.27	242.82	218.37
183.6	275.01	272.23	268.54	260.28	244.75	220.74



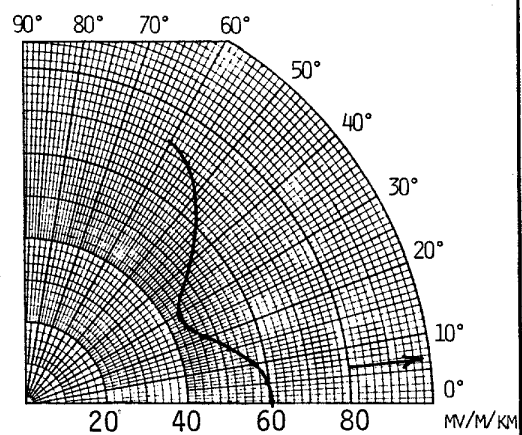
FROM: Prop. 740 kHz.
 TO: CBL 0°T
 BEARING (°T) 50.0°T
 DISTANCE (KM) 1412.5 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 4.5°
 HORIZONTAL RAD. 74.96 mv/m
 MAX. RAD. AT θ 72.32 mv/m
 SKYWAVE FACTOR 31.16 uv/m
 LIMIT 0.4507 mv/m



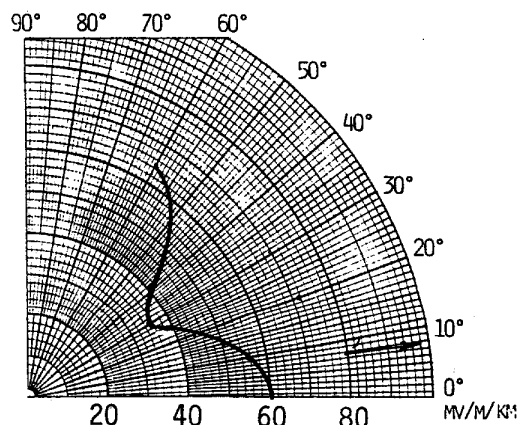
FROM: Prop. 740 kHz.
 TO: CBL 220°T
 BEARING (°T) 109.0°T
 DISTANCE (KM) 1306.0 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 5.4°
 HORIZONTAL RAD. 63.26 mv/m
 MAX. RAD. AT θ 62.35 mv/m
 SKYWAVE FACTOR 38.08 uv/m
 LIMIT 0.4749 mv/m



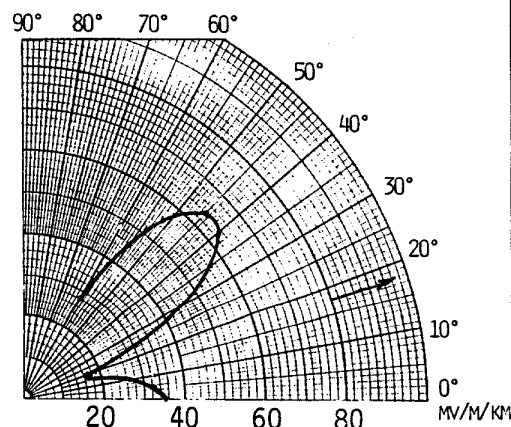
FROM: Prop. 740 kHz.
 TO: CBL 230°T
 BEARING (°T) 113.2°T
 DISTANCE (KM) 1238.6 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 6.0°
 HORIZONTAL RAD. 75.00 mv/m
 MAX. RAD. AT θ 74.61 mv/m
 SKYWAVE FACTOR 43.01 uv/m
 LIMIT 0.6418 mv/m



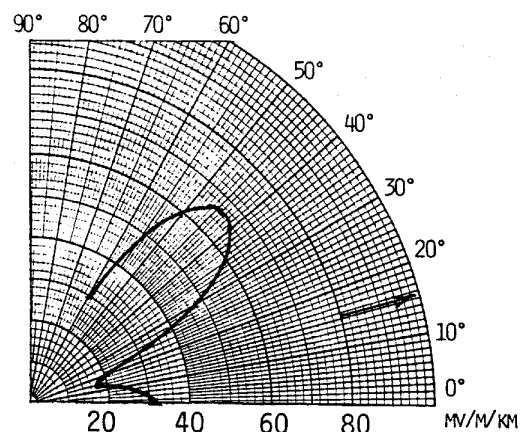
FROM: Prop. 740 kHz.
 TO: CBL 260°T
 BEARING (°T) 105.4°T
 DISTANCE (KM) 1186.9 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 6.5°
 HORIZONTAL RAD. 60.62 mv/m
 MAX. RAD. AT θ 58.78 mv/m
 SKYWAVE FACTOR 47.00 uv/m
 LIMIT 0.5525 mv/m



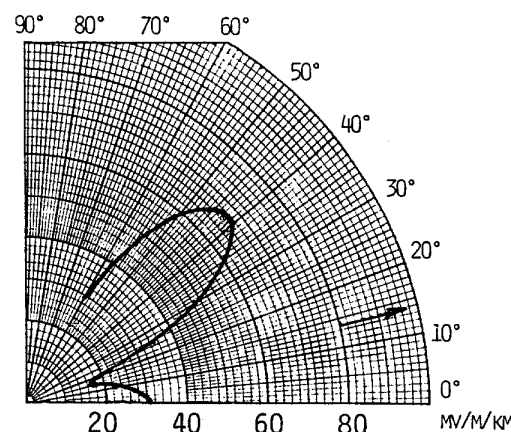
FROM: Prop. 740 kHz.
 TO: CBL 280°T
 BEARING (°T) 102.1°T
 DISTANCE (KM) 116.7 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 6.7°
 HORIZONTAL RAD. 60.05 mv/m
 MAX. RAD. AT θ 57.94 mv/m
 SKYWAVE FACTOR 48.46 uv/m
 LIMIT 0.5616 mv/m



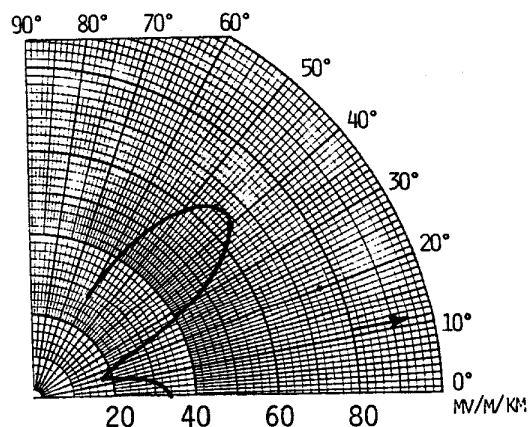
FROM: Prop. 740 kHz.
 TO: CBL 316°T
 BEARING (°T) 41.6°T
 DISTANCE (KM) 553.7 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 17.8°
 HORIZONTAL RAD. 35.54 mv/m
 MAX. RAD. AT θ 16.92 mv/m
 SKYWAVE FACTOR 117.03 uv/m
 LIMIT 0.3960 mv/m



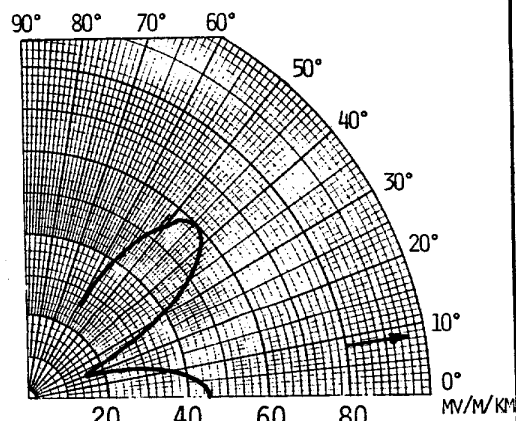
FROM: Prop. 740 kHz.
 TO: CBL 320°T
 BEARING (°T) 40.9°T
 DISTANCE (KM) 634.2 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 15.4°
 HORIZONTAL RAD. 31.76 mv/m
 MAX. RAD. AT θ 17.48 mv/m
 SKYWAVE FACTOR 107.21 uv/m
 LIMIT 0.3748 mv/m



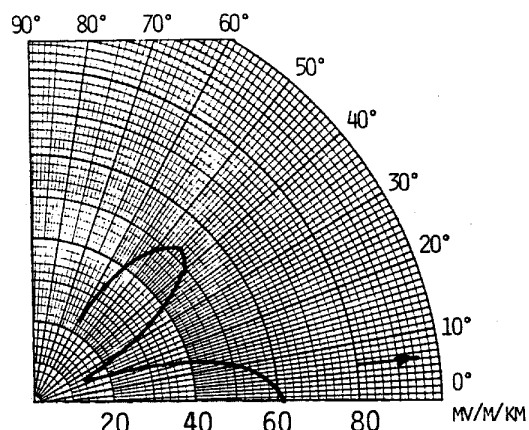
FROM: Prop. 740 kHz.
 TO: CBL 323°T
 BEARING (°T) 40.7°T
 DISTANCE (KM) 694.8 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 13.8°
 HORIZONTAL RAD. 30.70 mv/m
 MAX. RAD. AT θ 18.26 mv/m
 SKYWAVE FACTOR 99.92 uv/m
 LIMIT 0.3649 mv/m



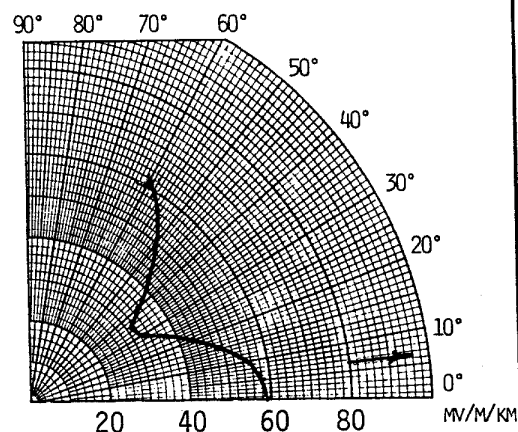
FROM: Prop. 740 kHz.
 TO: CBL 330°T
 BEARING (°T) 41.3°T
 DISTANCE (KM) 836.0 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 11.0°
 HORIZONTAL RAD. 33.90 mv/m
 MAX. RAD. AT θ 23.34 mv/m
 SKYWAVE FACTOR 82.54 uv/m
 LIMIT 0.3853 mv/m



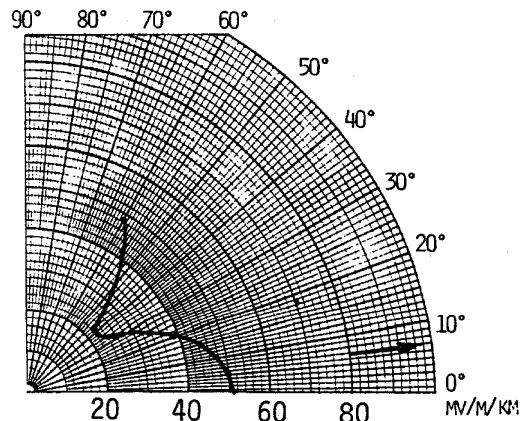
FROM: Prop. 740 kHz.
 TO: CBL 340°T
 BEARING (°T) 43.4°T
 DISTANCE (KM) 1034.9 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 8.2°
 HORIZONTAL RAD. 45.43 mv/m
 MAX. RAD. AT θ 38.04 mv/m
 SKYWAVE FACTOR 60.62 uv/m
 LIMIT 0.4612 mv/m



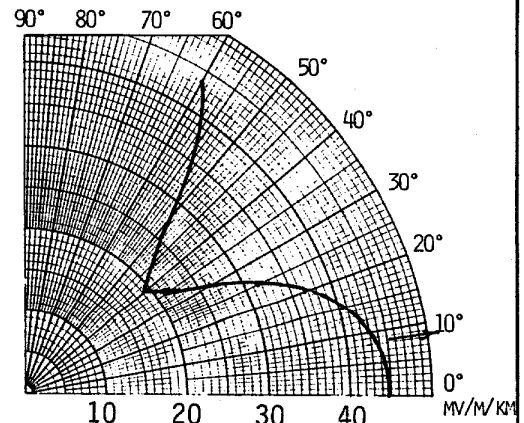
FROM: Prop. 740 kHz.
 TO: CBL 350°T
 BEARING (°T) 46.5°T
 DISTANCE (KM) 1227.7 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 6.1°
 HORIZONTAL RAD. 61.07 mv/m
 MAX. RAD. AT θ 56.49 mv/m
 SKYWAVE FACTOR 43.82 uv/m
 LIMIT 0.4951 mv/m



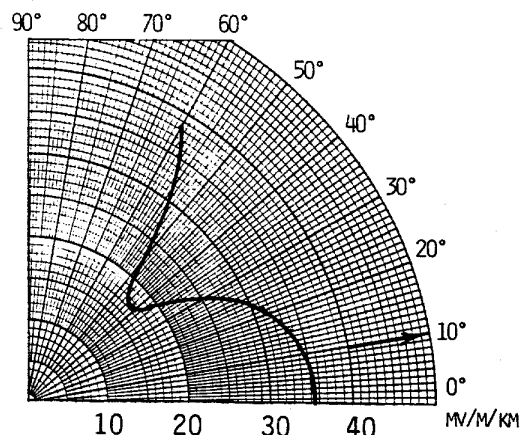
FROM: Prop. 740 kHz.
 TO: CBL Point A
 BEARING (°T) 100.3°T
 DISTANCE (KM) 1190.4 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 6.5°
 HORIZONTAL RAD. 59.31 mv/m
 MAX. RAD. AT θ 57.37 mv/m
 SKYWAVE FACTOR 46.74 uv/m
 LIMIT 0.5363 mv/m



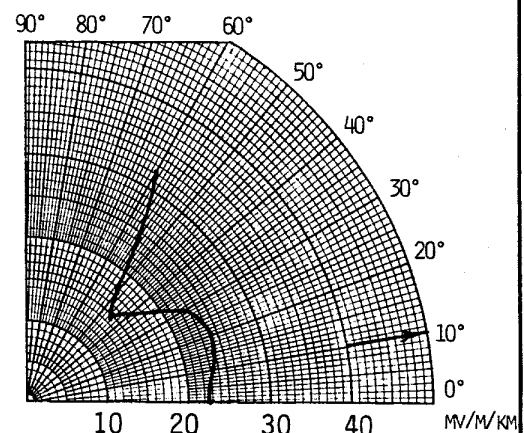
FROM: Prop. 740 kHz.
 TO: CBL Point B
 BEARING (°T) 94.4°T
 DISTANCE (KM) 1154.6 km.
 MIDPOINT LAT. (°) ----
 θ MIN - θ MAX (°) 6.8°
 HORIZONTAL RAD. 50.98 mv/m
 MAX. RAD. AT θ 49.60 mv/m
 SKYWAVE FACTOR 49.64 uv/m
 LIMIT 0.4924 mv/m



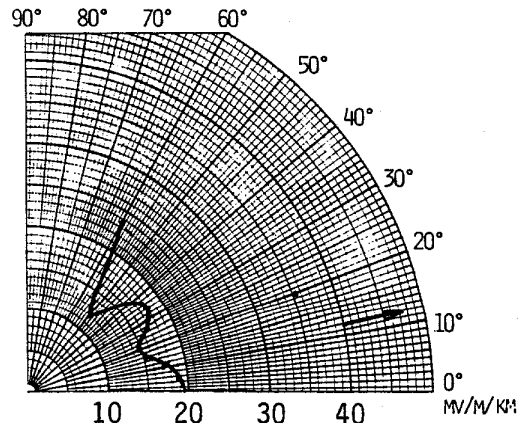
FROM: Prop. 740 kHz.
 TO: CBL Point C
 BEARING (°T) 92.1°T
 DISTANCE (KM) 1003.3 km.
 MIDPOINT LAT. (°) ----
 θ MIN - θ MAX (°) 8.5°
 HORIZONTAL RAD. 44.92 mv/m
 MAX. RAD. AT θ 43.44 mv/m
 SKYWAVE FACTOR 63.83 uv/m
 LIMIT 0.5546 mv/m



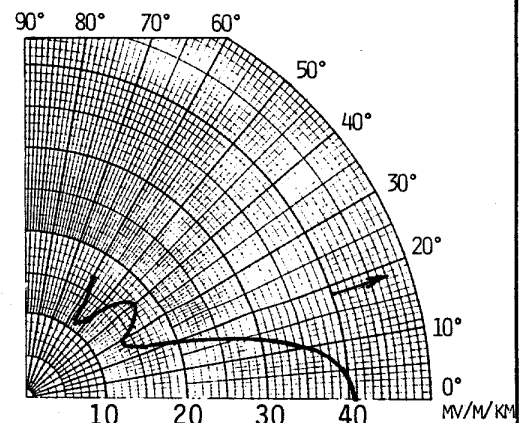
FROM: Prop. 740 kHz.
 TO: CBL Point D
 BEARING (°T) 89.2°T
 DISTANCE (KM) 914.9 km.
 MIDPOINT LAT. (°) ----
 θ MIN - θ MAX (°) 9.8°
 HORIZONTAL RAD. 35.37 mv/m
 MAX. RAD. AT θ 34.65 mv/m
 SKYWAVE FACTOR 72.51 uv/m
 LIMIT 0.5025 mv/m



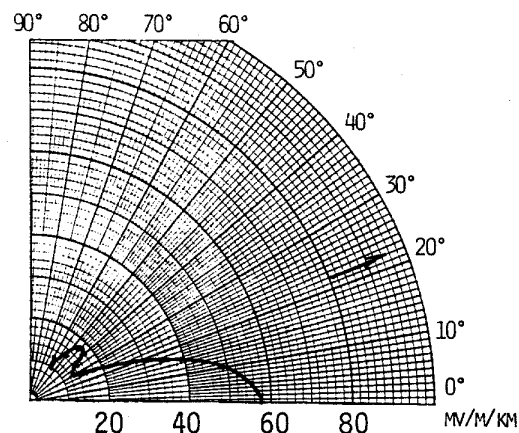
FROM: Prop. 740 kHz.
 TO: CBL Point E
 BEARING (°T) 85.7°T
 DISTANCE (KM) 889.1 km.
 MIDPOINT LAT. (°) ----
 θ MIN - θ MAX (°) 10.2°
 HORIZONTAL RAD. 22.65 mv/m
 MAX. RAD. AT θ 23.33 mv/m
 SKYWAVE FACTOR 75.42 uv/m
 LIMIT 0.3519 mv/m



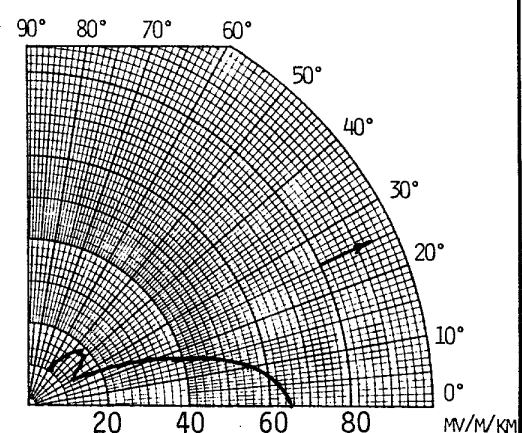
FROM: Prop. 740 kHz.
 TO: CBL Point F
 BEARING (°T) 80.2°T
 DISTANCE (KM) 799.3 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 11.7°
 HORIZONTAL RAD. 19.64 mv/m
 MAX. RAD. AT θ 16.33 mv/m
 SKYWAVE FACTOR 86.50 uv/m
 LIMIT 0.2825 mv/m



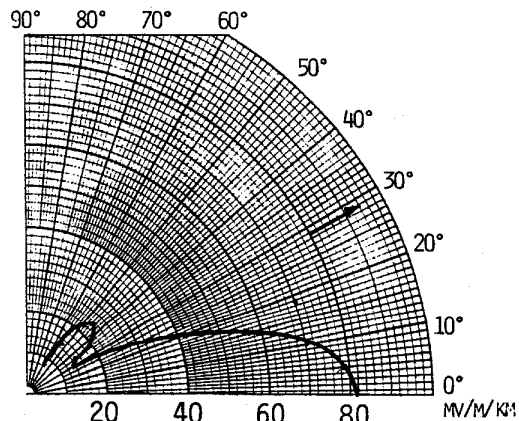
FROM: Prop. 740 kHz.
 TO: CBL Point G
 BEARING (°T) 75.2°T
 DISTANCE (KM) 537.7 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 18.4°
 HORIZONTAL RAD. 40.97 mv/m
 MAX. RAD. AT θ 21.91 mv/m
 SKYWAVE FACTOR 119.16 uv/m
 LIMIT 0.5222 mv/m



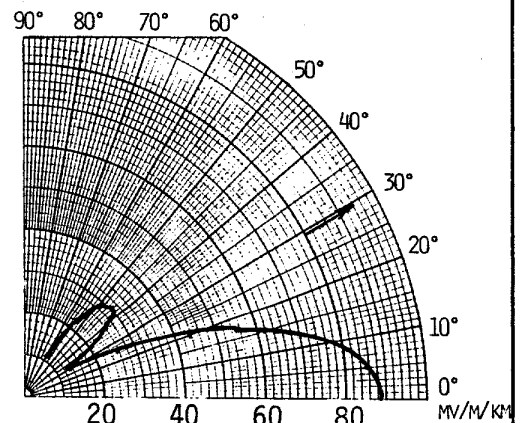
FROM: Prop. 740 kHz.
 TO: CBL Point H
 BEARING (°T) 71.5°T
 DISTANCE (KM) 451.1 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 22.0°
 HORIZONTAL RAD. 57.54 mv/m
 MAX. RAD. AT θ 23.65 mv/m
 SKYWAVE FACTOR 132.59 uv/m
 LIMIT 0.6272 mv/m



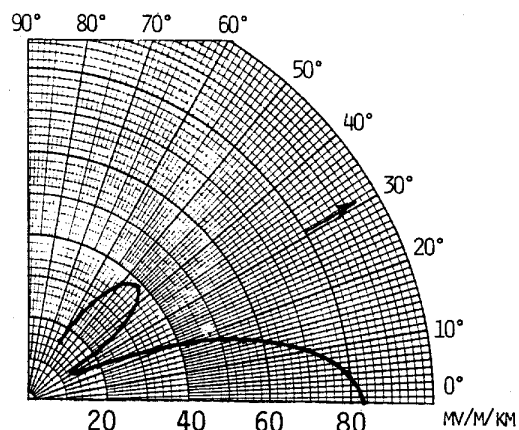
FROM: Prop. 740 kHz.
 TO: CBL Point I
 BEARING (°T) 69.6°T
 DISTANCE (KM) 391.5 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 25.2°
 HORIZONTAL RAD. 65.20 mv/m
 MAX. RAD. AT θ 19.73 mv/m
 SKYWAVE FACTOR 145.50
 LIMIT 0.5741 mv/m



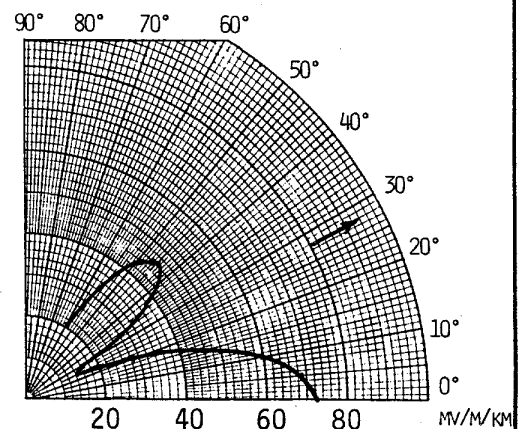
FROM: Prop. 740 kHz.
 TO: CBL Point J
 BEARING (°T) 64.3°T
 DISTANCE (KM) 338.9 km.
 MIDPOINT LAT. (°) ----
 θ MIN - θ MAX (°) 28.7°
 HORIZONTAL RAD. 81.59 mv/m
 MAX. RAD. AT θ 15.86 mv/m
 SKYWAVE FACTOR 159.66 uv/m
 LIMIT 0.5064 mv/m



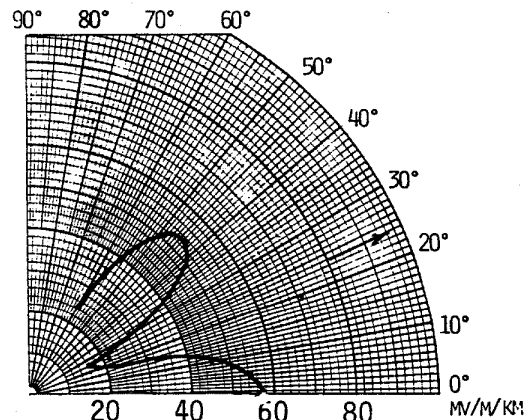
FROM: Prop. 740 kHz.
 TO: CBL Point K
 BEARING (°T) 58.4°T
 DISTANCE (KM) 330.5 km.
 MIDPOINT LAT. (°) ----
 θ MIN - θ MAX (°) 29.4°
 HORIZONTAL RAD. 88.66 mv/m
 MAX. RAD. AT θ 13.87 mv/m
 SKYWAVE FACTOR 162.52 uv/m
 LIMIT 0.4508 mv/m



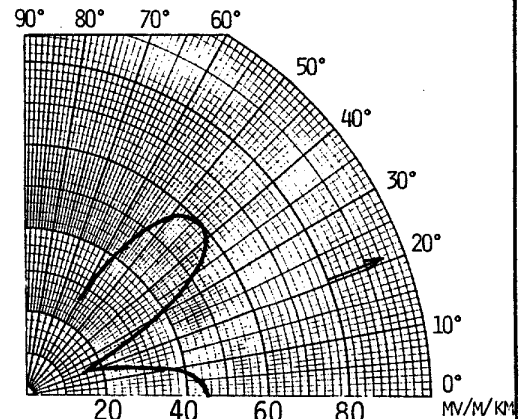
FROM: Prop. 740 kHz.
 TO: CBL Point L
 BEARING (°T) 53.0°T
 DISTANCE (KM) 314.5 km.
 MIDPOINT LAT. (°) ----
 θ MIN - θ MAX (°) 30.6°
 HORIZONTAL RAD. 83.13 mv/m
 MAX. RAD. AT θ 14.45 mv/m
 SKYWAVE FACTOR 167.94 uv/m
 LIMIT 0.4853 mv/m



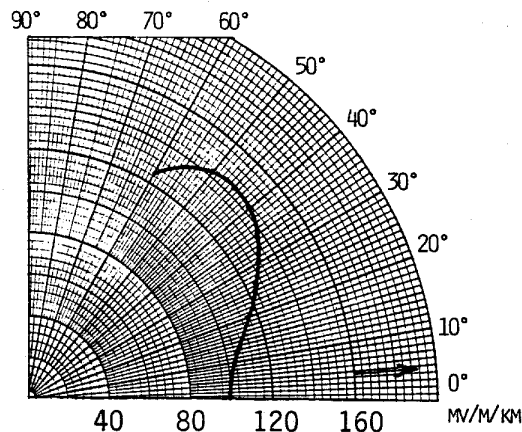
FROM: Prop. 740 kHz.
 TO: CBL Point M
 BEARING (°T) 49.2°T
 DISTANCE (KM) 354.6 km.
 MIDPOINT LAT. (°) ----
 θ MIN - θ MAX (°) 27.6°
 HORIZONTAL RAD. 72.19 mv/m
 MAX. RAD. AT θ 14.33 mv/m
 SKYWAVE FACTOR 154.73 uv/m
 LIMIT 0.4435 mv/m



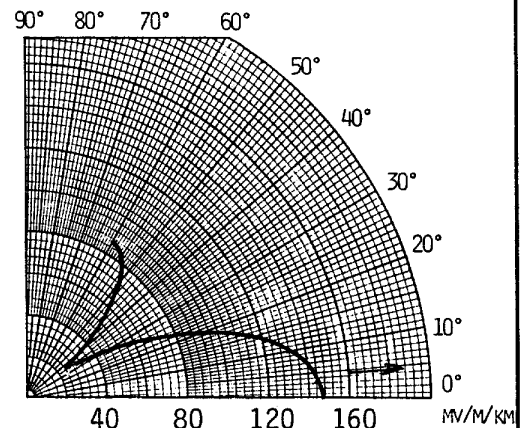
FROM: Prop. 740 kHz.
 TO: CBL Point N
 BEARING (°T) 45.7°T
 DISTANCE (KM) 412.9 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 24.0°
 HORIZONTAL RAD. 57.29 mv/m
 MAX. RAD. AT θ 14.95 mv/m
 SKYWAVE FACTOR 140.65 uv/m
 LIMIT 0.4205 mv/m



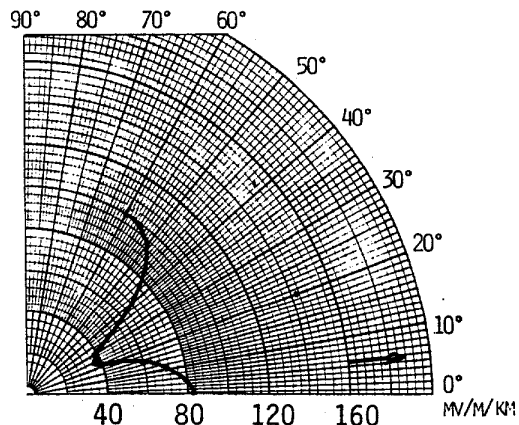
FROM: Prop. 740 kHz.
 TO: CBL Point O
 BEARING (°T) 43.3°T
 DISTANCE (KM) 475.4 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 20.9°
 HORIZONTAL RAD. 44.89 mv/m
 MAX. RAD. AT θ 15.99 mv/m
 SKYWAVE FACTOR 128.43 uv/m
 LIMIT 0.4107 mv/m



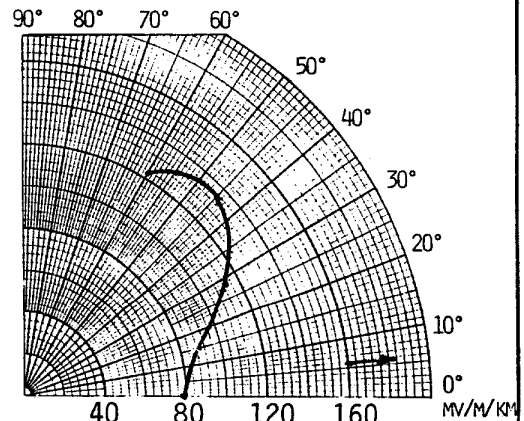
FROM: Prop. 740 kHz.
 TO: CBX Site
 BEARING (°T) 306.6°T
 DISTANCE (KM) 1393.0 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 4.7°
 HORIZONTAL RAD. 99.21 mv/m
 MAX. RAD. AT θ 100.18 mv/m
 SKYWAVE FACTOR 32.34 uv/m
 LIMIT 0.6480 mv/m



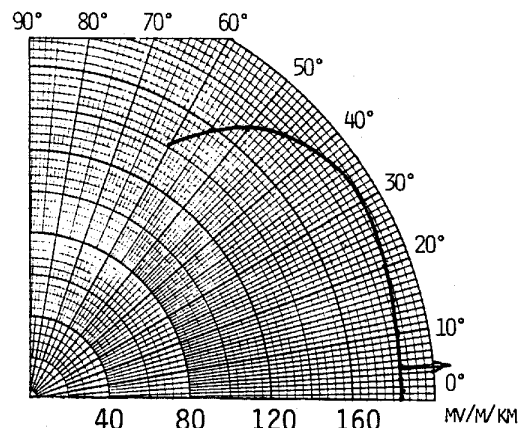
FROM: Prop. 740 kHz.
 TO: CBX Point A
 BEARING (°T) 314.4°T
 DISTANCE (KM) 1419.5 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 4.5°
 HORIZONTAL RAD. 146.93 mv/m
 MAX. RAD. AT θ 143.83 mv/m
 SKYWAVE FACTOR 30.79 uv/m
 LIMIT 0.8857 mv/m



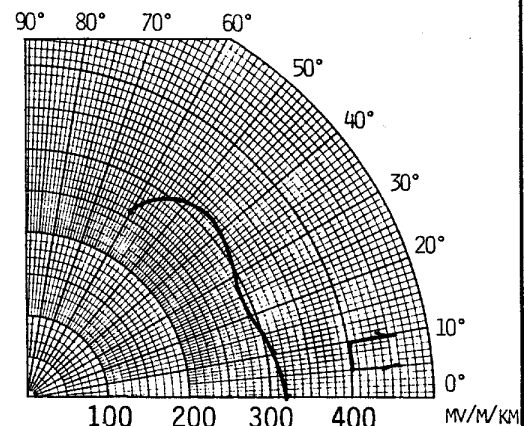
FROM: Prop. 740 kHz.
 TO: CBX Point B
 BEARING (°T) 311.8°T
 DISTANCE (KM) 1312.7 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 5.3°
 HORIZONTAL RAD. 82.83 mv/m
 MAX. RAD. AT θ 79.62 mv/m
 SKYWAVE FACTOR 37.62 uv/m
 LIMIT 0.5991 mv/m



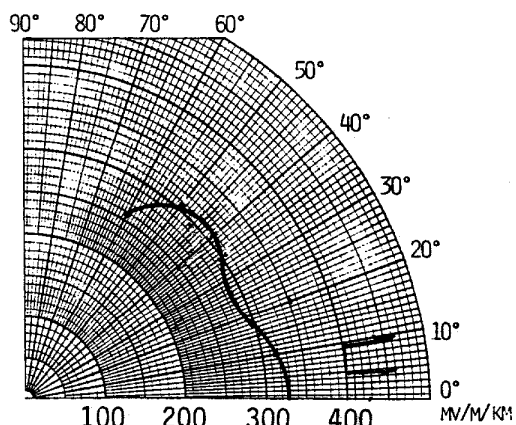
FROM: Prop. 740 kHz.
 TO: CBX Point C
 BEARING (°T) 307.4°T
 DISTANCE (KM) 1289.7 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 5.5°
 HORIZONTAL RAD. 79.26 mv/m
 MAX. RAD. AT θ 80.57 mv/m
 SKYWAVE FACTOR 39.24 uv/m
 LIMIT 0.6323 mv/m



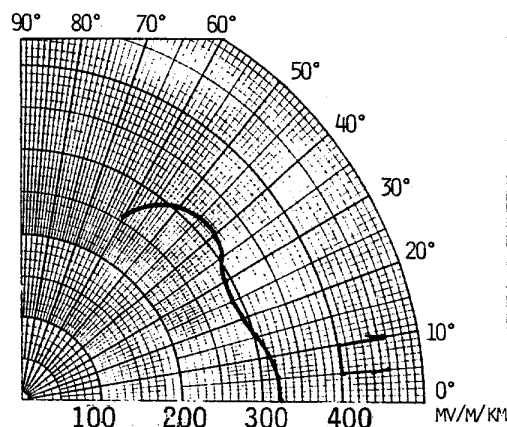
FROM: Prop. 740 kHz.
 TO: CBX Point D
 BEARING (°T) 303.6°T
 DISTANCE (KM) 1379.8 km.
 MIDPOINT LAT.(°) ----
 θ MIN - θ MAX (°) 4.8°
 HORIZONTAL RAD. 183.60 mv/m
 MAX. RAD. AT θ 184.02 mv/m
 SKYWAVE FACTOR 33.20 uv/m
 LIMIT 1.2219 mv/m



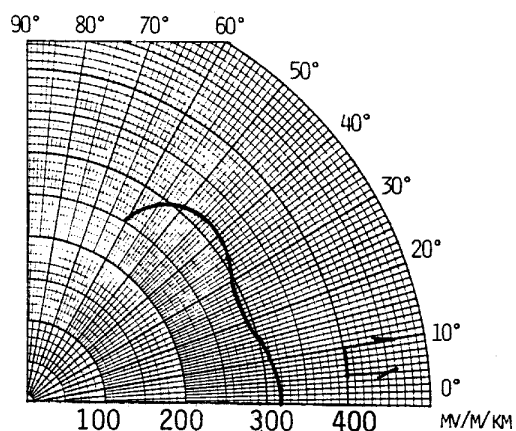
FROM: Prop. 740 kHz.
 TO: KTWK Site
 BEARING (°T) 220.1°T
 DISTANCE (KM) 1110.8 km.
 MIDPOINT LAT.(°) 52.5°
 θ MIN - θ MAX (°) 5.0°-9.8°
 HORIZONTAL RAD. 320.72 mv/m
 MAX. RAD. AT θ 317.81 mv/m
 SKYWAVE FACTOR 29.83 uv/m
 LIMIT 1.8961 mv/m



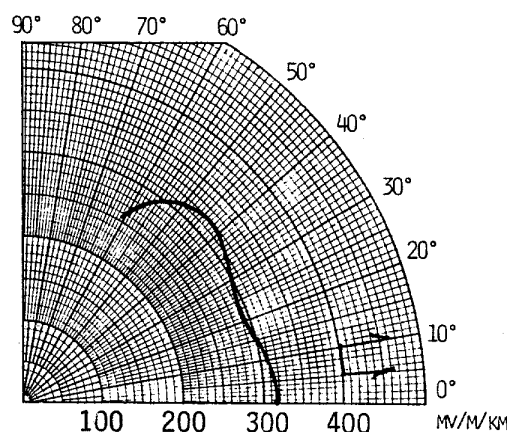
FROM: Prop. 740 kHz.
 TO: KTWK Point A
 BEARING (°T) 217.9°T
 DISTANCE (KM) 1127.5 km.
 MIDPOINT LAT.(°)
 θ MIN - θ MAX (°) 4.7°-9.4°
 HORIZONTAL RAD. 328.60 mv/m
 MAX. RAD. AT θ 325.48 mv/m
 SKYWAVE FACTOR 28.82 uv/m
 LIMIT 1.8761 mv/m



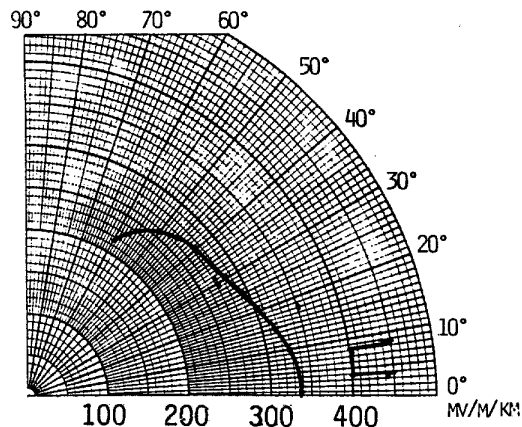
FROM: Prop. 740 kHz.
 TO: KTWK Point B
 BEARING (°T) 219.3°T
 DISTANCE (KM) 1092.6 km.
 MIDPOINT LAT.(°)
 θ MIN - θ MAX (°) 5.0°-9.9°
 HORIZONTAL RAD. 323.45 mv/m
 MAX. RAD. AT θ 320.30 mv/m
 SKYWAVE FACTOR 30.24 uv/m
 LIMIT 1.9372 mv/m



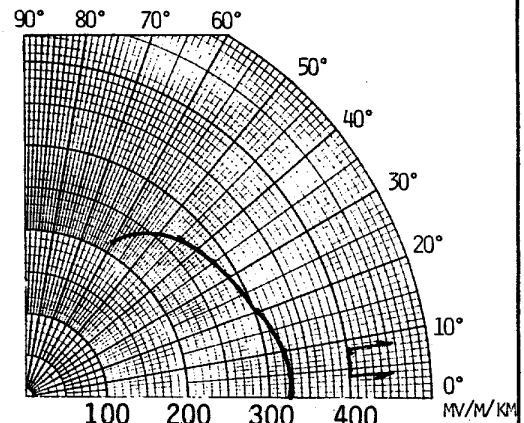
FROM: Prop. 740 kHz.
 TO: KTWK Point C
 BEARING (°T) 220.5°T
 DISTANCE (KM) 1079.8 km.
 MIDPOINT LAT.(°)
 θ MIN - θ MAX (°) 5.2°-10.0°
 HORIZONTAL RAD. 319.43 mv/m
 MAX. RAD. AT θ 316.42 mv/m
 SKYWAVE FACTOR 30.74 uv/m
 LIMIT 1.9454 mv/m



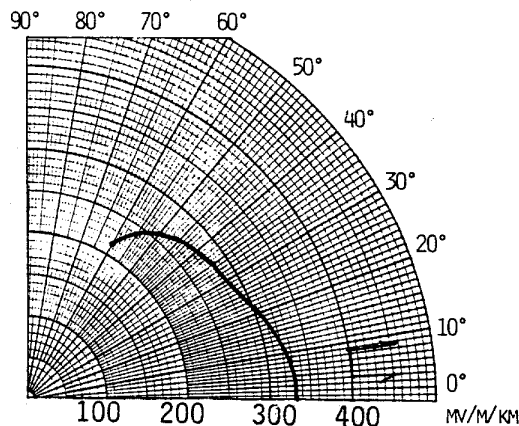
FROM: Prop. 740 kHz.
 TO: KTWK Point D
 BEARING (°T) 221.0°T
 DISTANCE (KM) 1085.9 km.
 MIDPOINT LAT.(°)
 θ MIN - θ MAX (°) 5.1°-10.0°
 HORIZONTAL RAD. 317.90 mv/m
 MAX. RAD. AT θ 315.16 mv/m
 SKYWAVE FACTOR 30.43 uv/m
 LIMIT 1.9181 mv/m



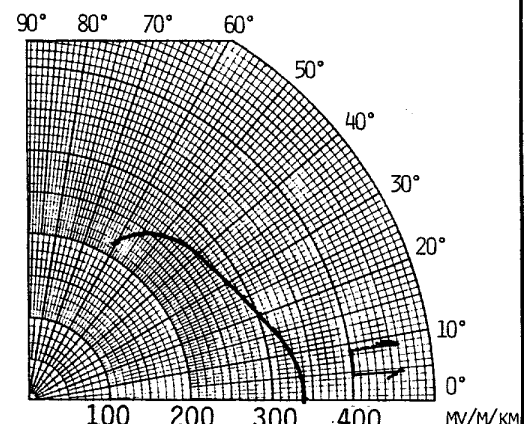
FROM: Prop. 740 kHz.
 TO: KRMG Site
 BEARING (°T) 179.1°T
 DISTANCE (KM) 1211.3 km.
 MIDPOINT LAT. (°) 51.5°
 θ MIN - θ MAX (°) 4.0°-8.4°
 HORIZONTAL RAD. 338.23 mv/m
 MAX. RAD. AT θ 336.39 mv/m
 SKYWAVE FACTOR 26.32 uv/m
 LIMIT 1.7708 mv/m



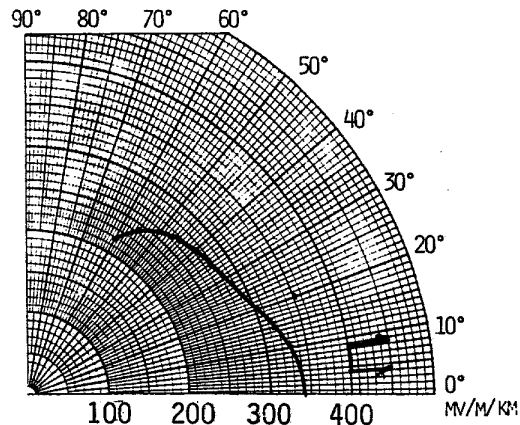
FROM: Prop. 740 kHz.
 TO: KRMG Point A
 BEARING (°T) 173.9°T
 DISTANCE (KM) 1224.2 km.
 MIDPOINT LAT. (°)
 θ MIN - θ MAX (°) 3.9°-8.3°
 HORIZONTAL RAD. 329.72 mv/m
 MAX. RAD. AT θ 328.47 mv/m
 SKYWAVE FACTOR 25.75 uv/m
 LIMIT 1.6916 mv/m



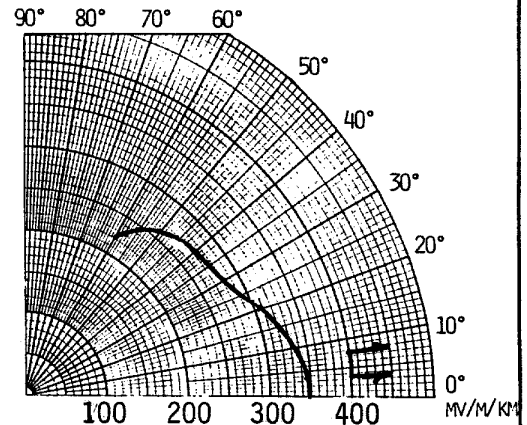
FROM: Prop. 740 kHz.
 TO: KRMG Point B
 BEARING (°T) 176.1°T
 DISTANCE (KM) 1195.2 km.
 MIDPOINT LAT. (°)
 θ MIN - θ MAX (°) 4.2°-8.6°
 HORIZONTAL RAD. 332.68 mv/m
 MAX. RAD. AT θ 331.00 mv/m
 SKYWAVE FACTOR 26.81 uv/m
 LIMIT 1.7748 mv/m



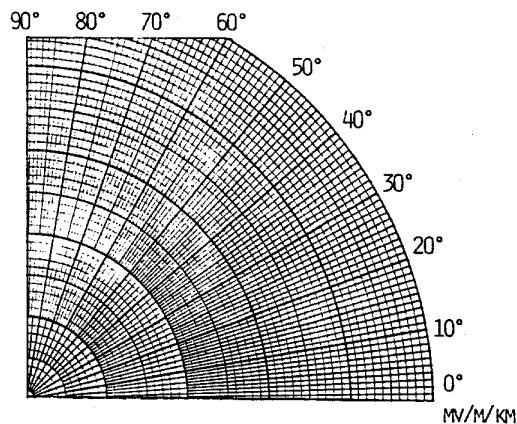
FROM: Prop. 740 kHz.
 TO: KRMG Point C
 BEARING (°T) 179.9°T
 DISTANCE (KM) 1184.8 km.
 MIDPOINT LAT. (°)
 θ MIN - θ MAX (°) 4.3°-8.7°
 HORIZONTAL RAD. 339.96 mv/m
 MAX. RAD. AT θ 337.74 mv/m
 SKYWAVE FACTOR 27.27 uv/m
 LIMIT 1.8420 mv/m



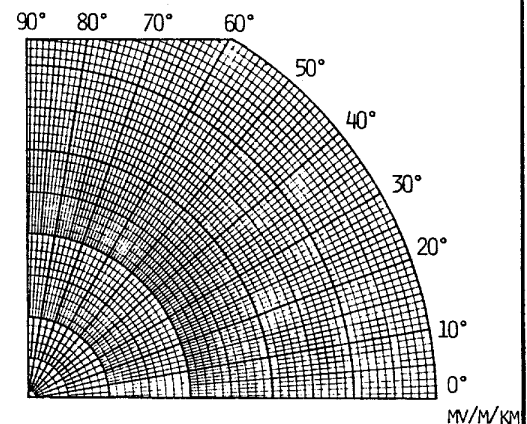
FROM: Prop. 740 kHz.
 TO: KRMG Point D
 BEARING (°T) 180.9°T
 DISTANCE (KM) 1203.3 km.
 MIDPOINT LAT.(°)
 θ MIN - θ MAX (°) 4.1°-8.5°
 HORIZONTAL RAD. 342.24mv/m
 MAX. RAD. AT θ 340.10 mv/m
 SKYWAVE FACTOR 26.62 uv/m
 LIMIT 1.8107 mv/m



FROM: Prop. 740 kHz.
 TO: KRMG Point E
 BEARING (°T) 183.6°T
 DISTANCE (KM) 1290.0 km.
 MIDPOINT LAT.(°)
 θ MIN - θ MAX (°) 3.5°-7.6°
 HORIZONTAL RAD. 348.86 mv/m
 MAX. RAD. AT θ 347.08 mv/m
 SKYWAVE FACTOR 23.87 uv/m
 LIMIT 1.6570 mv/m



FROM: _____
 TO: _____
 BEARING (°T) _____
 DISTANCE (KM) _____
 MIDPOINT LAT.(°) _____
 θ MIN - θ MAX (°) _____
 HORIZONTAL RAD. _____
 MAX. RAD. AT θ _____
 SKYWAVE FACTOR _____
 LIMIT _____



FROM: _____
 TO: _____
 BEARING (°T) _____
 DISTANCE (KM) _____
 MIDPOINT LAT.(°) _____
 θ MIN - θ MAX (°) _____
 HORIZONTAL RAD. _____
 MAX. RAD. AT θ _____
 SKYWAVE FACTOR _____
 LIMIT _____