

Attachment #11
Discussion
Comprehensive Technical Exhibit
Covering Exhibits 11 through 18
September 2023

This engineering report is in support of an application for WOAM AM Peoria IL for a minor change in daytime power and pattern. WOAM is proposing to utilize its nighttime pattern during the day at a power of 500 watts (utilizing the current nighttime parameters, phase, ratio, ETC. only be reducing power during the day to 500 watts) and continuing to use the same nighttime pattern at night, at the current licensed 1000 watts, with no changes to night

Discussion

This is a minor change, WOAM will utilize the existing site, towers, and phaser for the proposed change, utilizing nighttime parameters during the day but at a reduced power of 500 watts. The applicant has found that the maintenance of a four-tower DA-2 directional switching equipment, including (but not limited to) phaser, switching gear at each tower has become a maintenance burden.

Broadcast facilities

The modified broadcast facility of WOAM meets FCC requirements of city-grade coverage and reduces overall interference to and from other existing stations during daytime operations.

Blanket contour

The proposed 1 v/m contour is totally within the current night operation 1 Volt contour, The US census report shows that no people live within that contour.

Population coverage

The new proposed daytime coverage of WOAM operating with 500 watts are as follows:

	Population	Sq. Km
1,000mv/m	0	0.2
5mv/m	232,415	783
2mv/m	283,632	2,054
.5mv/m	384,666	7,426

Groundwave

Utilizing the nighttime pattern during the day at the power level of 500 watts shows the daytime ground-wave is compliant with FCC allocation standards except where existing interference given and taken occurs, in which case the total Sq. kilometers given interference between WOAM co-channel WSIQ is totally eliminated. Received Co-Chanel interference, WOAM will receive from WSIQ increases by 86 square kilometers additional interference to the WOAM .5 millivolt. The area in which WOAM receives this additional interference from WSIQ is all within the area where WOAM is currently severely interfered by first adjacency WSOY (.5 to .5mv/m) The first adj. interference between WOAM and WSOY masks any background interference from co-channel WSIQ. If a waiver of this overlap rule is needed, it is hereby requested.

First adjacent interference both given and received from WSOY is reduced.

WOAM Interference Reduction Study September 2020

Co-Channel – 1350 khz (.5 to .025 mv/m)

To WSIQ from WOAM 1350 khz
Current 179.69 sq km

This application – 0 sq km – Decrease of 179 sq km

To WOAM from WSIQ
Current 366 sq km

This application – 452.93 sq km – Increase of 86 sq km

1st Adjacency 1350 + 1340 khz (.5 to .25 mv/m)

WOAM to WSOY
Current 4,232.19 sq km

This application – 4,212.78 sq km – Decrease of 19.41 sq km

WSPY to WOAM
Current 4,251.61 sq km
This application – 3,374.29 sq km – Decrease of 877.32 sq km

Skywave Interference

This application only pertains to the daytime operation of the station.

Critical Hours Interference

This application is for a regional channel, thus, no critical hour consideration.

Environmental Effects

This application is for a facility that currently exists. No changes to the current facility. This operation will continue to be in compliance with OET Bulletin number 65. Full protection is afforded to workers and the general public. The towers that are currently located on the property are fenced in and RF warning signs are posted

Exhibit 18

R-F RADIATION GUIDELINES COMPLIANCE STUDY

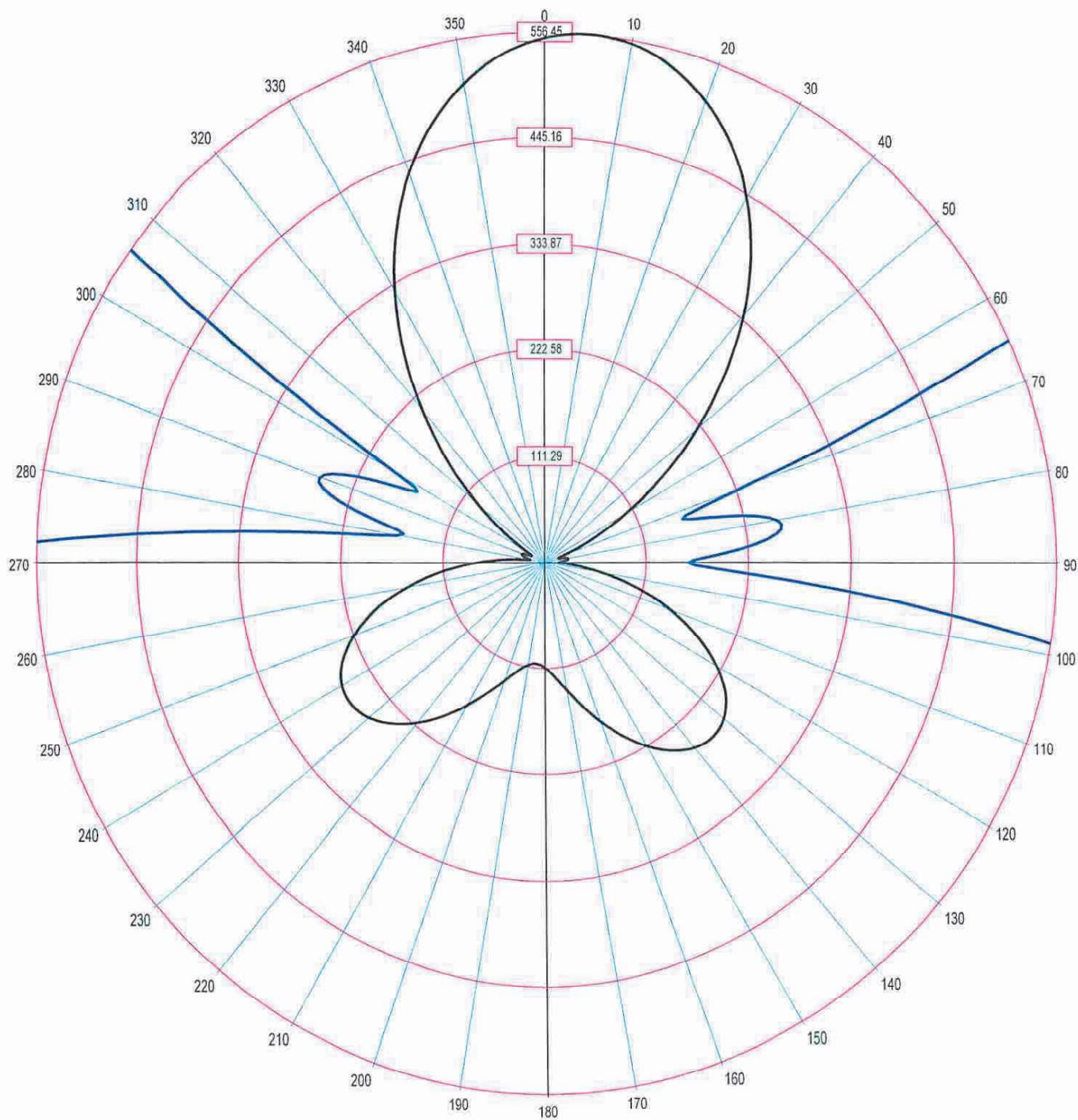
This instant Application has been evaluated for potential of human exposure to non-ionizing radiofrequency radiation. The guidelines set forth in OED Bulletin No. 65 were used as the standard for this evaluation.

The proposed facility at 500 watts, with a Radiator indicated and a frequency of 1350 kHz requires fencing at 1 Meter from the tower base (1 Meter for 1kw). Fencing at the tower site is compliant with or exceeds this requirement.

In the event maintenance personnel are required to work within the restricted areas, they will be advised to limit their work in the high RF field areas to specified periods of time appropriate for compliance with the FCC guidelines set forth in OET Bulletin No. 65 (Edition 97-01). If their work cannot be completed within the specified period of time, it is proposed to reduce power appropriately or shut down the operation of the stations to permit completion of the assignment.

Larry Nelson
CEO
American Education Foundation, Inc.
FCC License PG-18-9128

September 2023



Callsign	:WOAMnew	T#	Field	Phase	Spacing	Orientation	Height	Top Load	Tower Ref
Frequency	:1350 kHz	1	1.200	123.0	0.0	0.0	123.5	0.0	0
Power	:0.500 kw	2	2.000	312.5	90.0	5.5	123.5	0.0	0
ERSS	:599.8 mV/m/km	3	2.000	170.5	180.0	5.5	123.5	0.0	0
Theoret. Pattern RMS	:249.3 mV/m/km	4	1.200	0.0	270.0	5.5	123.5	0.0	0
Standard Pattern RMS	:262.2 mV/m/km								
Modified Pattern RMS	:								
Latitude	:40-35-41.0 N								
Longitude	: 89-35-40.0 W								
Number Augmentations	:0								

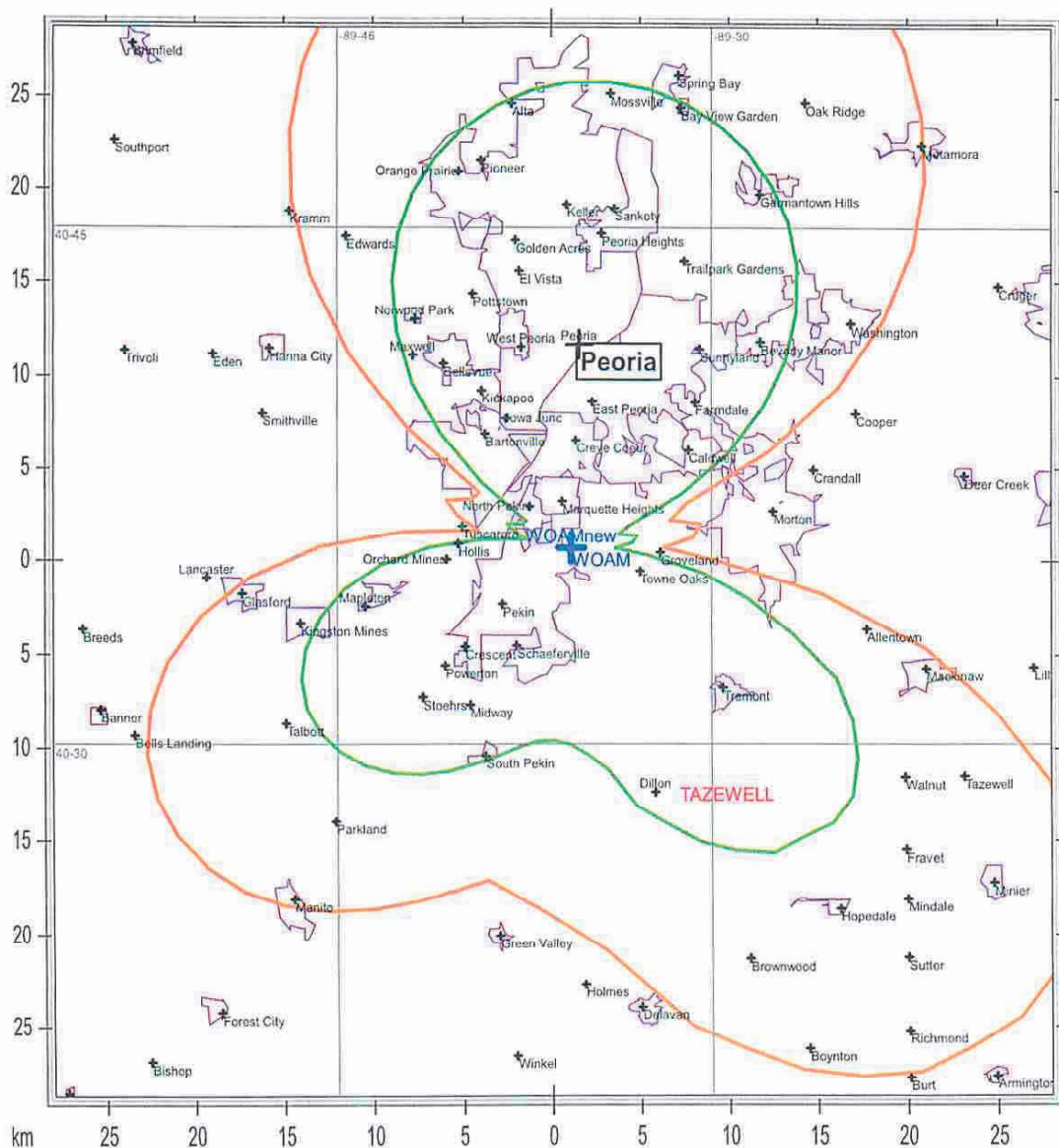
Azim	Field [mV/m]
0.0	550.533
5.0	556.454
10.0	552.505
15.0	538.738
20.0	515.355
25.0	482.753
30.0	441.596
35.0	392.903
40.0	338.125
45.0	279.202
50.0	218.568
55.0	159.100
60.0	104.015
65.0	56.858
70.0	22.927
75.0	18.021
80.0	25.627
85.0	23.427
90.0	15.778
95.0	30.999
100.0	64.743
105.0	104.766
110.0	145.951
115.0	184.300
120.0	216.560
125.0	240.401
130.0	254.531
135.0	258.717
140.0	253.671
145.0	240.861
150.0	222.271
155.0	200.154
160.0	176.805
165.0	154.380
170.0	134.760
175.0	119.459
180.0	109.576
185.0	105.779
190.0	108.316
195.0	117.021
200.0	131.313

Azim	Field [mV/m]
205.0	150.178
210.0	172.181
215.0	195.511
220.0	218.056
225.0	237.536
230.0	251.673
235.0	258.409
240.0	256.154
245.0	244.026
250.0	222.059
255.0	191.328
260.0	153.964
265.0	113.048
270.0	72.437
275.0	36.893
280.0	16.172
285.0	21.822
290.0	26.072
295.0	19.921
300.0	18.934
305.0	48.752
310.0	93.826
315.0	147.625
320.0	206.483
325.0	267.126
330.0	326.601
335.0	382.379
340.0	432.421
345.0	475.179
350.0	509.556
355.0	534.822

Green= 5mv/m, Orange = 2mv/m, Red =.5mv/m, Gray = .025mv/m M-3

LWN 9-19-23

WOAM City Coverage New 500W Day (using nite Pattern)



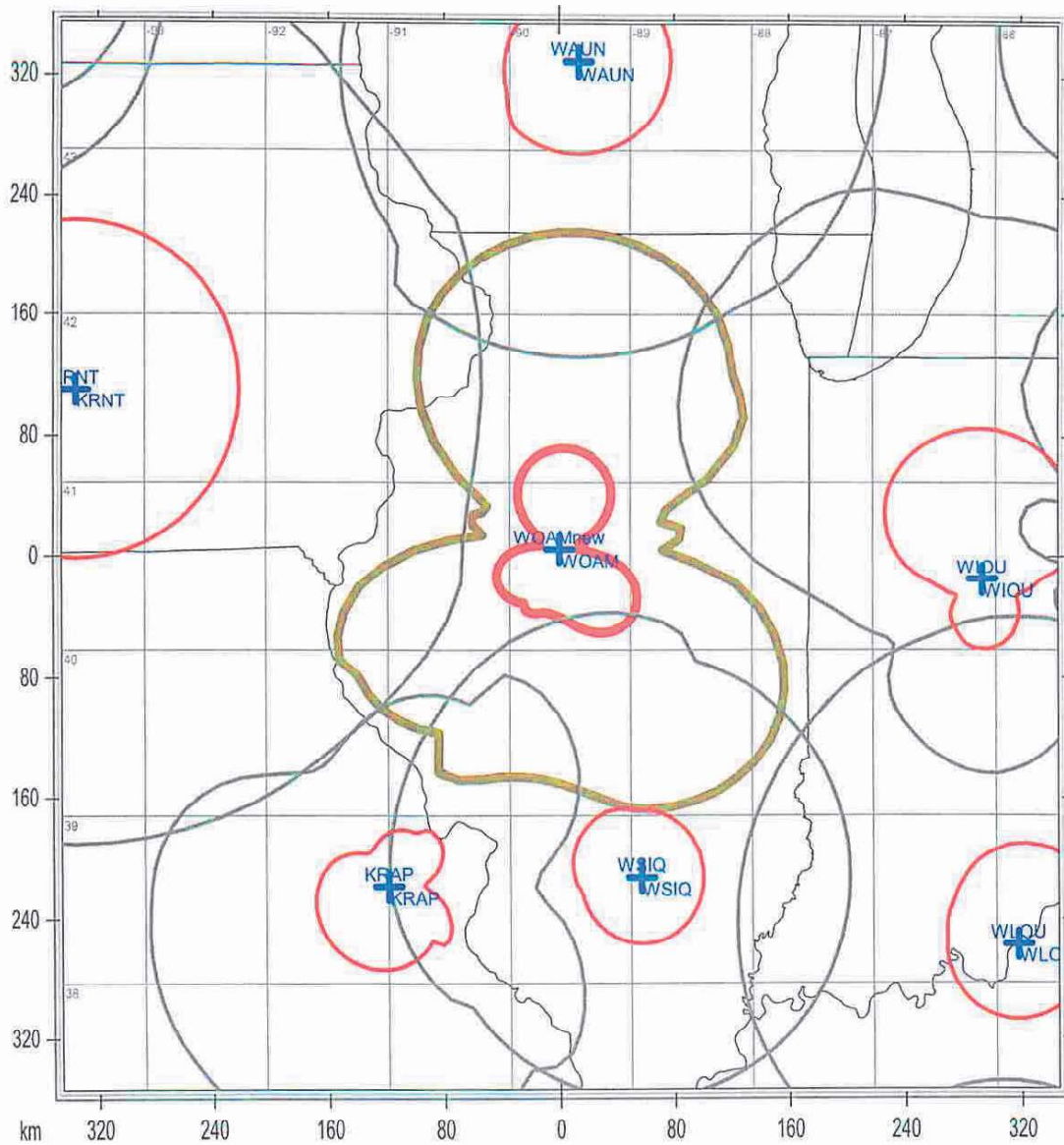
Green= 5mv/m, Orange = 2mv/m, M-3

State Borders City Borders Lat/Lon Grid

Map Scale: 1:387528 1 cm = 3.88 km V/H Size: 57.48 x 56.02 km

LWN 9-19-23

WOAM Co_Channel -- New 500W Day (using nite Pattern)



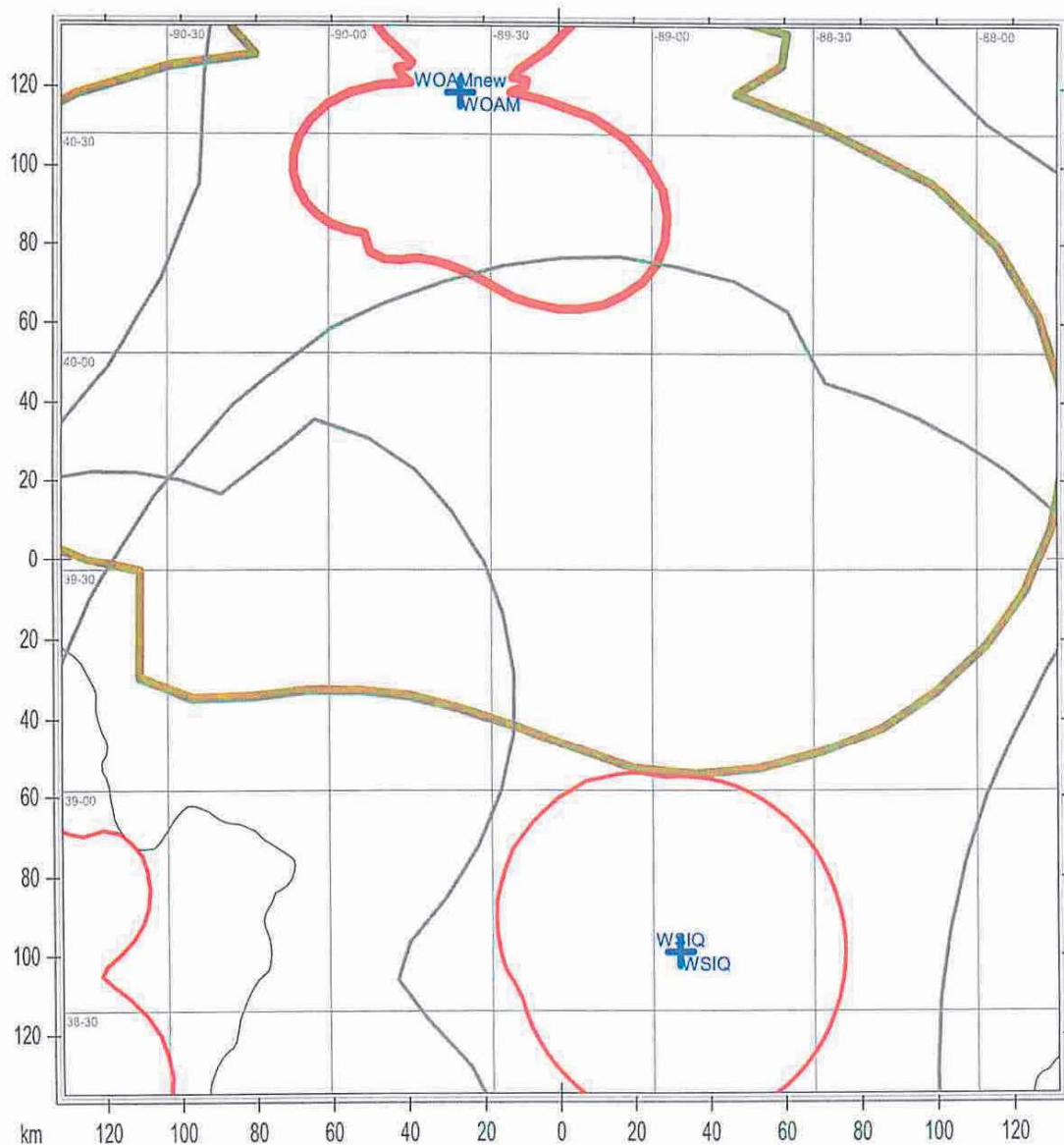
Map Footer .025 & .5 Mv/m (M-3)

State Borders Lat/Lon Grid

Map Scale: 1:4782007 1 cm = 47.82 km V|H Size: 709.32 x 691.33 km

LWN 9-3-23

WSIQ to WOAM -- New 500W Day (using nite Pattern)



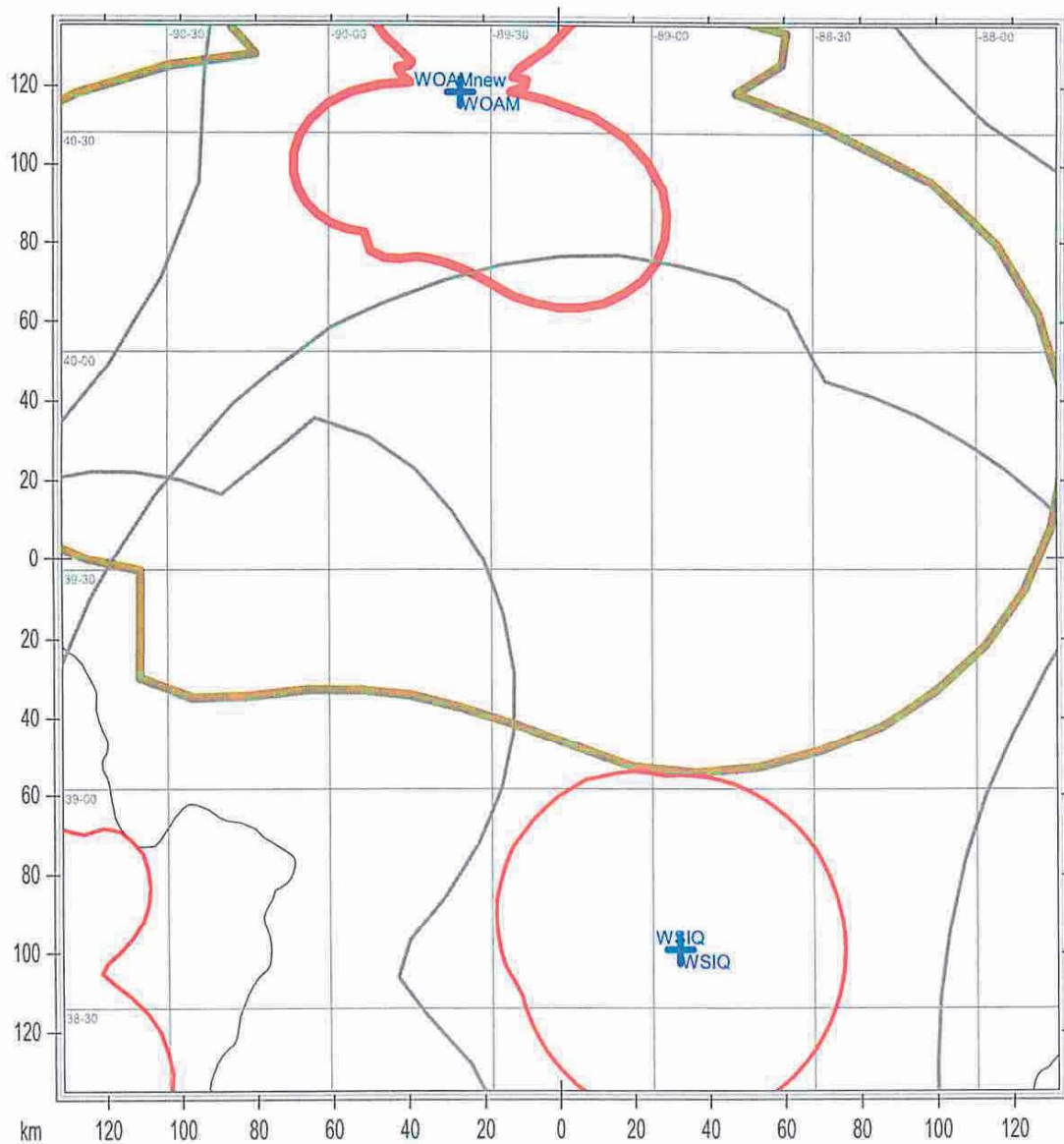
Map Footer .025 & .5 Mv/m (M-3)

State Borders Lat/Lon Grid

Map Scale: 1:1822038 1 cm = 18.22 km V|H Size: 270.26 x 263.41 km

LWN 9-3-23

WSIQ to WOAM -- New 500W Day (using nite Pattren)



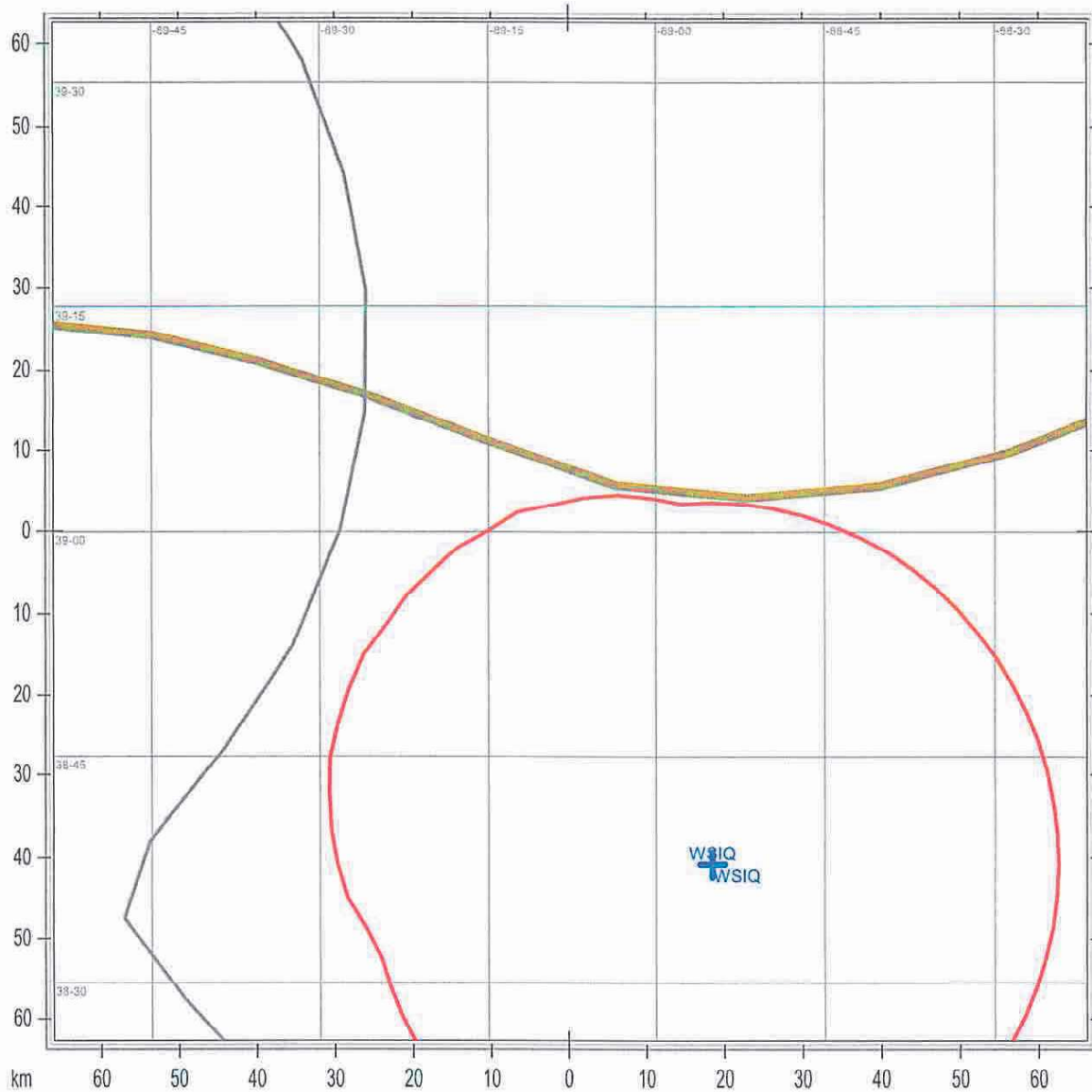
Map Footer .025 & .5 Mv/m (M-3)

State Borders Lat/Lon Grid

Map Scale: 1:1822038 1 cm = 18.22 km V|H Size: 270.26 x 263.41 km

LWN 9-3-23

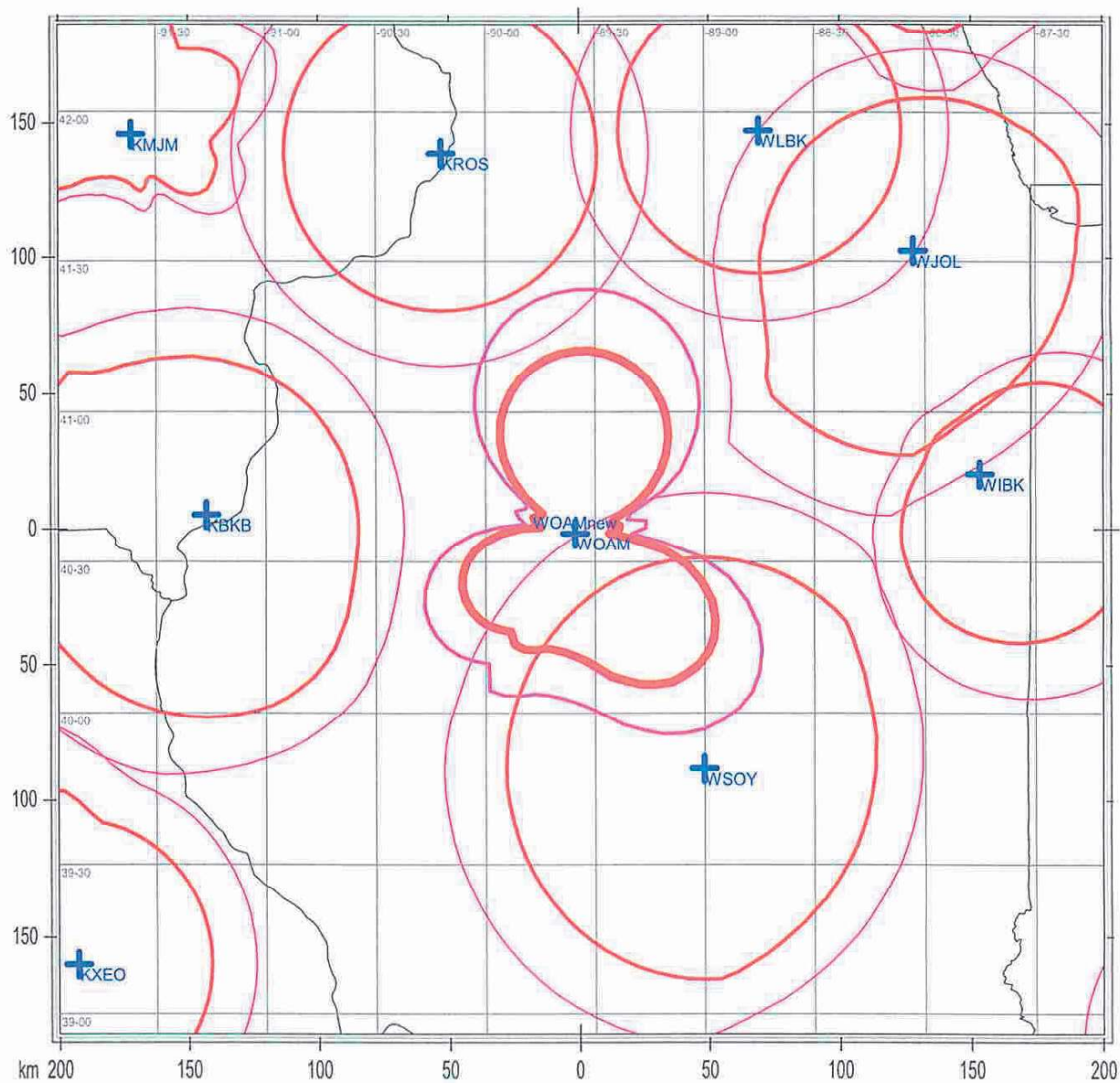
WOAM Co-Channel -To WSIG -- New 500W Day (using nite Pattern)



.025 & ..5 Mv/m (M-3)

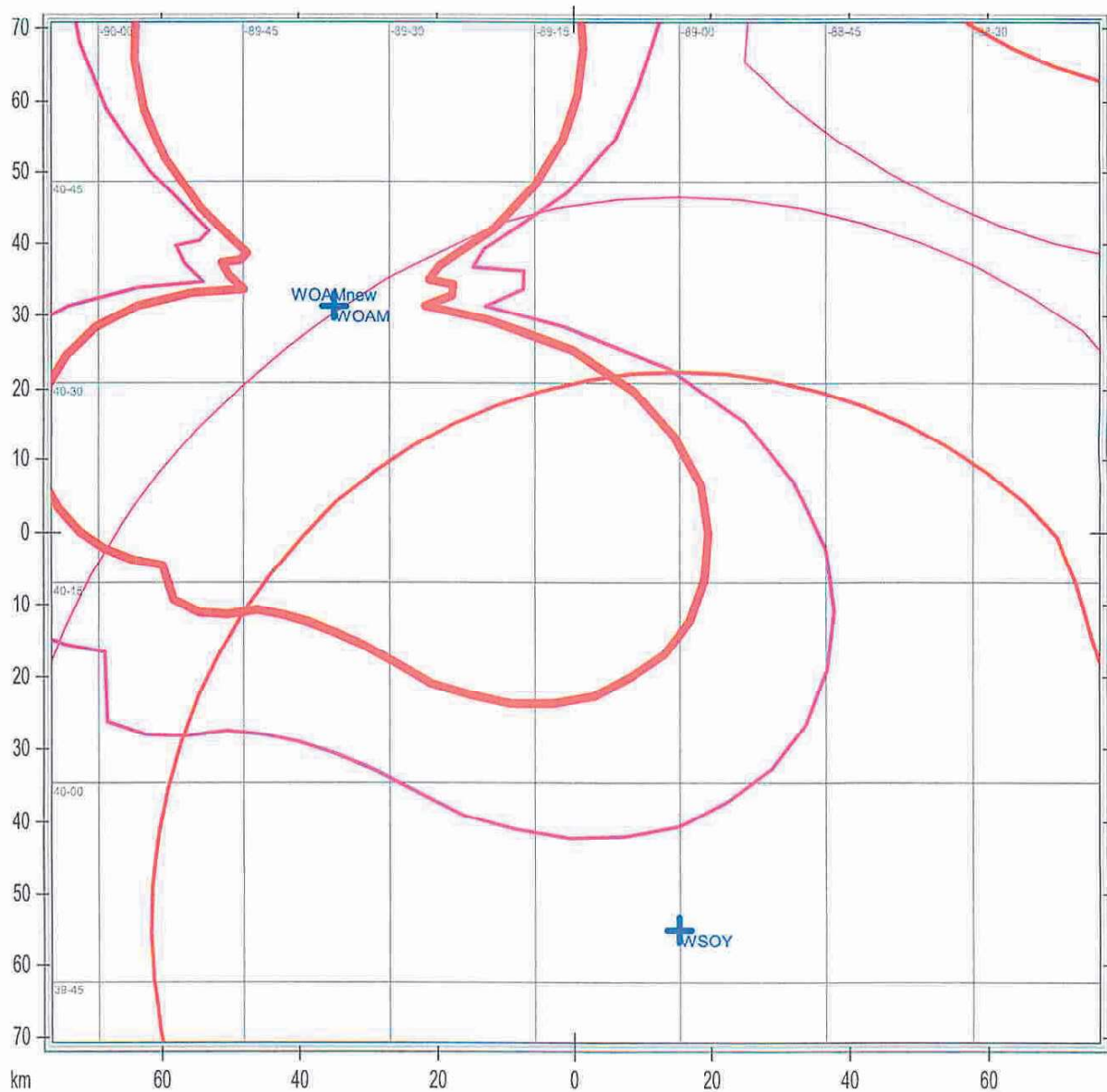
State Borders Lat/Lon Grid

1st Adj. WOAM New Day (Night Pattern-500w)



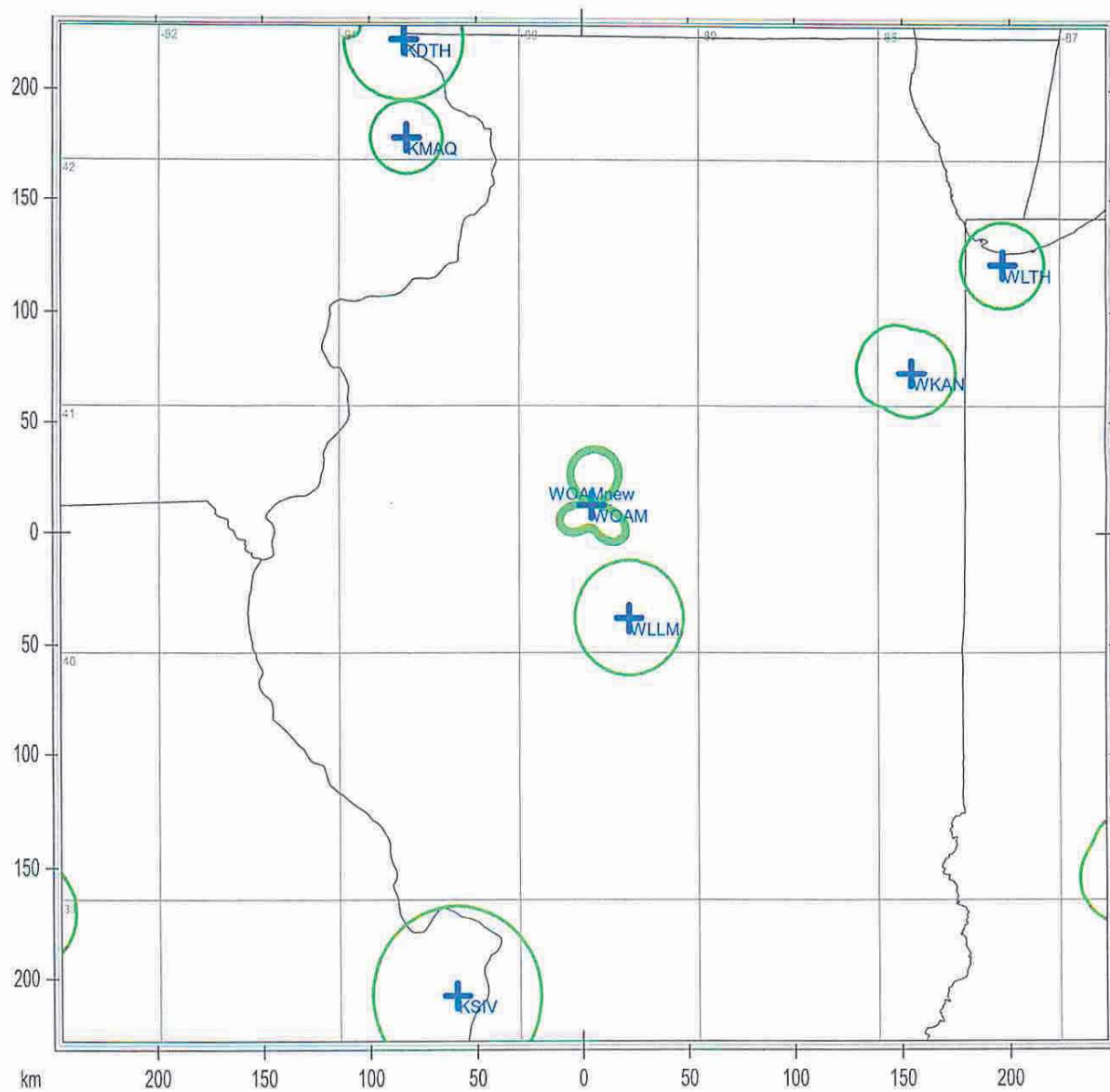
Red = .5mv/m Pink = .25mv/m (M-3)

1st Adj. WOAM - WSOY New Day (Night Pattern-500w)



Red = .5mv/m Pink = .25mv/m (M-3)

2nd Adj. WOAM New Day (Night Pattern-500w)



Green = 5mv/m

Callsign : WOAMnew
Coordinates : 40-35-41.0 N, 89-35-40.0 W
Comments :
Frequency (KHz): 1350
Power (w): 500.000
Pattern : LD
Efficiency : 249.270 mV/M
Desc : DA2
City/State : PEORIA, IL
ARN : BML20220609AAD
Licensee : AMERICAN EDUCATION FOUNDATION, INC.

	Tower	Field	Phase	Spcng	Ornt
Hght	TopLd				
-----	-----	-----	-----	-----	-----
-----	-----				
	1	1.200	123.0	0.0	0.0
123.5	0.0				
	2	2.000	312.5	90.0	5.5
123.5	0.0				
	3	2.000	170.5	180.0	5.5
123.5	0.0				
	4	1.200	0.0	270.0	5.5
123.5	0.0				

Brng	Span	mV/M
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Field

Brng	mV/m	Brng	mV/m	Brng	mV/m	Brng
mV/m	Brng	mV/m				
-----	-----	-----	-----	-----	-----	-----
-----	-----	-----				
0	550.533	75	18.021	150	222.271	225

237.536	300	18.934				
5	556.454	80	25.627	155	200.154	230
251.673	305	48.752				
10	552.505	85	23.427	160	176.805	235
258.409	310	93.826				
15	538.738	90	15.778	165	154.380	240
256.154	315	147.625				
20	515.355	95	30.999	170	134.760	245
244.026	320	206.483				
25	482.753	100	64.743	175	119.459	250
222.059	325	267.126				
30	441.596	105	104.766	180	109.576	255
191.328	330	326.601				
35	392.903	110	145.951	185	105.779	260
153.964	335	382.379				
40	338.125	115	184.300	190	108.316	265
113.048	340	432.421				
45	279.202	120	216.560	195	117.021	270
72.437	345	475.179				
50	218.568	125	240.401	200	131.313	275
36.893	350	509.556				
55	159.100	130	254.531	205	150.178	280
16.172	355	534.822				
60	104.015	135	258.717	210	172.181	285
21.822						
65	56.858	140	253.671	215	195.511	290
26.072						
70	22.927	145	240.861	220	218.056	295
19.921						

0.0 ohm K	:	189.902	1.0 ohm K	:
181.838				
RMSs	:	262.207	RMSt	:
249.270				

RSS : 599.789

Contour type : Ground Wave
Signal strength : 0.500 mV/m
Area covered : 7426.100 sq. km
Population covered: 384666 persons

Azimuth Degrees	Field mV/m @ 1 kM	Contour mV/m	Distance kM
0	550.53	0.500	67.52
5	556.45	0.500	67.83
10	552.51	0.500	67.62
15	538.74	0.500	66.91
20	515.36	0.500	65.66
25	482.75	0.500	63.94
30	441.60	0.500	61.60
35	392.90	0.500	58.70
40	338.12	0.500	55.13
45	279.20	0.500	50.92
50	218.57	0.500	45.95
55	159.10	0.500	40.22
60	104.01	0.500	33.52
65	56.86	0.500	25.53
70	22.93	0.500	16.21
75	18.02	0.500	14.19
80	25.63	0.500	17.49
85	23.43	0.500	17.05
90	15.78	0.500	13.15
95	31.00	0.500	21.96
100	64.74	0.500	35.13
105	104.77	0.500	45.06
110	145.95	0.500	52.48
115	184.30	0.500	58.84
120	216.56	0.500	62.91

125	240.40	0.500	65.86
130	254.53	0.500	67.68
135	258.72	0.500	68.11
140	253.67	0.500	67.26
145	240.86	0.500	66.17
150	222.27	0.500	63.75
155	200.15	0.500	60.95
160	176.80	0.500	57.48
165	154.38	0.500	54.27
170	134.76	0.500	50.22
175	119.46	0.500	47.12
180	109.58	0.500	45.20
185	105.78	0.500	43.98
190	108.32	0.500	43.53
195	117.02	0.500	43.70
200	131.31	0.500	45.55
205	150.18	0.500	46.95
210	172.18	0.500	47.09
215	195.51	0.500	43.88
220	218.06	0.500	45.91
225	237.54	0.500	47.60
230	251.67	0.500	48.75
235	258.41	0.500	49.28
240	256.15	0.500	49.10
245	244.03	0.500	48.14
250	222.06	0.500	46.27
255	191.33	0.500	43.48
260	153.96	0.500	39.65
265	113.05	0.500	34.74
270	72.44	0.500	28.54
275	36.89	0.500	20.73
280	16.17	0.500	13.34
285	21.82	0.500	15.78
290	26.07	0.500	17.36

295	19.92	0.500	15.01
300	18.93	0.500	14.59
305	48.75	0.500	23.74
310	93.83	0.500	32.03
315	147.62	0.500	38.96
320	206.48	0.500	44.89
325	267.13	0.500	49.98
330	326.60	0.500	54.35
335	382.38	0.500	58.04
340	432.42	0.500	61.05
345	475.18	0.500	63.52
350	509.56	0.500	65.36
355	534.82	0.500	66.71

Contour type : Ground Wave
 Signal strength : 0.025 mV/m
 Area covered : 79807.100 sq. km
 Population covered: 3397811 persons

Azimuth Degrees	Field mV/m @ 1 kM	Contour mV/m	Distance kM
0	550.53	0.025	212.20
5	556.45	0.025	212.93
10	552.51	0.025	212.44
15	538.74	0.025	210.72
20	515.36	0.025	207.70
25	482.75	0.025	203.39
30	441.60	0.025	197.52
35	392.90	0.025	189.95
40	338.12	0.025	180.46
45	279.20	0.025	168.75
50	218.57	0.025	162.97
55	159.10	0.025	155.47
60	104.01	0.025	139.23

65	56.86	0.025	113.12
70	22.93	0.025	79.43
75	18.02	0.025	73.22
80	25.63	0.025	86.50
85	23.43	0.025	84.43
90	15.78	0.025	72.20
95	31.00	0.025	95.68
100	64.74	0.025	125.06
105	104.77	0.025	145.59
110	145.95	0.025	161.63
115	184.30	0.025	174.56
120	216.56	0.025	183.83
125	240.40	0.025	190.70
130	254.53	0.025	195.14
135	258.72	0.025	197.14
140	253.67	0.025	196.99
145	240.86	0.025	195.90
150	222.27	0.025	192.76
155	200.15	0.025	189.06
160	176.80	0.025	184.07
165	154.38	0.025	177.51
170	134.76	0.025	168.44
175	119.46	0.025	160.97
180	109.58	0.025	156.03
185	105.78	0.025	153.55
190	108.32	0.025	153.95
195	117.02	0.025	156.82
200	131.31	0.025	162.83
205	150.18	0.025	169.14
210	172.18	0.025	171.08
215	195.51	0.025	148.29
220	218.06	0.025	154.35
225	237.54	0.025	159.27
230	251.67	0.025	162.63

235	258.41	0.025	164.17
240	256.15	0.025	163.66
245	244.03	0.025	169.74
250	222.06	0.025	164.78
255	191.33	0.025	155.44
260	153.96	0.025	141.71
265	113.05	0.025	122.56
270	72.44	0.025	100.60
275	36.89	0.025	76.25
280	16.17	0.025	54.13
285	21.82	0.025	61.29
290	26.07	0.025	65.99
295	19.92	0.025	59.04
300	18.93	0.025	57.81
305	48.75	0.025	85.58
310	93.83	0.025	111.69
315	147.62	0.025	133.31
320	206.48	0.025	151.32
325	267.13	0.025	166.10
330	326.60	0.025	178.27
335	382.38	0.025	188.23
340	432.42	0.025	196.14
345	475.18	0.025	202.35
350	509.56	0.025	206.95
355	534.82	0.025	210.23

Contour type : Ground Wave
 Signal strength : 5.000 mV/m
 Area covered : 783.500 sq. km
 Population covered: 232415 persons

Azimuth	Field	Contour	Distance
Degrees	mV/m @ 1 kM	mV/m	kM
0	550.53	5.000	25.16

5	556.45	5.000	25.28
10	552.51	5.000	25.20
15	538.74	5.000	24.90
20	515.36	5.000	24.39
25	482.75	5.000	23.63
30	441.60	5.000	22.65
35	392.90	5.000	21.39
40	338.12	5.000	19.85
45	279.20	5.000	17.99
50	218.57	5.000	15.79
55	159.10	5.000	13.21
60	104.01	5.000	10.23
65	56.86	5.000	6.85
70	22.93	5.000	3.44
75	18.02	5.000	2.83
80	25.63	5.000	3.77
85	23.43	5.000	3.51
90	15.78	5.000	2.53
95	31.00	5.000	4.38
100	64.74	5.000	7.49
105	104.77	5.000	10.28
110	145.95	5.000	13.32
115	184.30	5.000	16.54
120	216.56	5.000	18.35
125	240.40	5.000	19.75
130	254.53	5.000	20.75
135	258.72	5.000	20.93
140	253.67	5.000	20.38
145	240.86	5.000	20.03
150	222.27	5.000	18.80
155	200.15	5.000	17.47
160	176.80	5.000	15.75
165	154.38	5.000	14.37
170	134.76	5.000	12.11

175	119.46	5.000	11.15
180	109.58	5.000	10.57
185	105.78	5.000	10.34
190	108.32	5.000	10.50
195	117.02	5.000	11.01
200	131.31	5.000	11.80
205	150.18	5.000	12.78
210	172.18	5.000	13.83
215	195.51	5.000	14.85
220	218.06	5.000	15.77
225	237.54	5.000	16.52
230	251.67	5.000	17.04
235	258.41	5.000	17.28
240	256.15	5.000	17.20
245	244.03	5.000	16.75
250	222.06	5.000	15.93
255	191.33	5.000	14.67
260	153.96	5.000	12.97
265	113.05	5.000	10.77
270	72.44	5.000	8.09
275	36.89	5.000	5.00
280	16.17	5.000	2.58
285	21.82	5.000	3.31
290	26.07	5.000	3.82
295	19.92	5.000	3.07
300	18.93	5.000	2.94
305	48.75	5.000	6.14
310	93.83	5.000	9.59
315	147.62	5.000	12.65
320	206.48	5.000	15.31
325	267.13	5.000	17.58
330	326.60	5.000	19.50
335	382.38	5.000	21.11
340	432.42	5.000	22.41

345	475.18	5.000	23.46
350	509.56	5.000	24.25
355	534.82	5.000	24.82

Contour type : Ground Wave
 Signal strength : 2.000 mV/m
 Area covered : 2054.500 sq. km
 Population covered: 283632 persons

Azimuth Degrees	Field mV/m @ 1 km	Contour mV/m	Distance km
0	550.53	2.000	37.82
5	556.45	2.000	37.99
10	552.51	2.000	37.87
15	538.74	2.000	37.46
20	515.36	2.000	36.75
25	482.75	2.000	35.75
30	441.60	2.000	34.38
35	392.90	2.000	32.69
40	338.12	2.000	30.59
45	279.20	2.000	28.06
50	218.57	2.000	25.07
55	159.10	2.000	21.52
60	104.01	2.000	17.33
65	56.86	2.000	12.37
70	22.93	2.000	6.89
75	18.02	2.000	5.80
80	25.63	2.000	7.44
85	23.43	2.000	6.99
90	15.78	2.000	5.26
95	31.00	2.000	8.46
100	64.74	2.000	14.41
105	104.77	2.000	20.65
110	145.95	2.000	25.36

115	184.30	2.000	29.69
120	216.56	2.000	32.29
125	240.40	2.000	34.20
130	254.53	2.000	35.50
135	258.72	2.000	35.76
140	253.67	2.000	35.11
145	240.86	2.000	34.49
150	222.27	2.000	32.87
155	200.15	2.000	31.02
160	176.80	2.000	28.69
165	154.38	2.000	26.67
170	134.76	2.000	23.77
175	119.46	2.000	21.66
180	109.58	2.000	20.45
185	105.78	2.000	19.49
190	108.32	2.000	18.87
195	117.02	2.000	18.44
200	131.31	2.000	19.55
205	150.18	2.000	20.91
210	172.18	2.000	22.36
215	195.51	2.000	23.77
220	218.06	2.000	25.04
225	237.54	2.000	26.05
230	251.67	2.000	26.77
235	258.41	2.000	27.09
240	256.15	2.000	26.98
245	244.03	2.000	26.39
250	222.06	2.000	25.25
255	191.33	2.000	23.53
260	153.96	2.000	21.18
265	113.05	2.000	18.11
270	72.44	2.000	14.23
275	36.89	2.000	9.48
280	16.17	2.000	5.35

285	21.82	2.000	6.65
290	26.07	2.000	7.53
295	19.92	2.000	6.24
300	18.93	2.000	6.01
305	48.75	2.000	11.29
310	93.83	2.000	16.41
315	147.62	2.000	20.73
320	206.48	2.000	24.41
325	267.13	2.000	27.50
330	326.60	2.000	30.11
335	382.38	2.000	32.30
340	432.42	2.000	34.07
345	475.18	2.000	35.51
350	509.56	2.000	36.58
355	534.82	2.000	37.34

Contour type : Ground Wave
 Signal strength : 0.025 mV/m
 Area covered : 79807.100 sq. km
 Population covered: 3397811 persons

Azimuth Degrees	Field mV/m @ 1 kM	Contour mV/m	Distance kM
0	550.53	0.025	212.20
5	556.45	0.025	212.93
10	552.51	0.025	212.44
15	538.74	0.025	210.72
20	515.36	0.025	207.70
25	482.75	0.025	203.39
30	441.60	0.025	197.52
35	392.90	0.025	189.95
40	338.12	0.025	180.46
45	279.20	0.025	168.75
50	218.57	0.025	162.97

55	159.10	0.025	155.47
60	104.01	0.025	139.23
65	56.86	0.025	113.12
70	22.93	0.025	79.43
75	18.02	0.025	73.22
80	25.63	0.025	86.50
85	23.43	0.025	84.43
90	15.78	0.025	72.20
95	31.00	0.025	95.68
100	64.74	0.025	125.06
105	104.77	0.025	145.59
110	145.95	0.025	161.63
115	184.30	0.025	174.56
120	216.56	0.025	183.83
125	240.40	0.025	190.70
130	254.53	0.025	195.14
135	258.72	0.025	197.14
140	253.67	0.025	196.99
145	240.86	0.025	195.90
150	222.27	0.025	192.76
155	200.15	0.025	189.06
160	176.80	0.025	184.07
165	154.38	0.025	177.51
170	134.76	0.025	168.44
175	119.46	0.025	160.97
180	109.58	0.025	156.03
185	105.78	0.025	153.55
190	108.32	0.025	153.95
195	117.02	0.025	156.82
200	131.31	0.025	162.83
205	150.18	0.025	169.14
210	172.18	0.025	171.08
215	195.51	0.025	148.29
220	218.06	0.025	154.35

225	237.54	0.025	159.27
230	251.67	0.025	162.63
235	258.41	0.025	164.17
240	256.15	0.025	163.66
245	244.03	0.025	169.74
250	222.06	0.025	164.78
255	191.33	0.025	155.44
260	153.96	0.025	141.71
265	113.05	0.025	122.56
270	72.44	0.025	100.60
275	36.89	0.025	76.25
280	16.17	0.025	54.13
285	21.82	0.025	61.29
290	26.07	0.025	65.99
295	19.92	0.025	59.04
300	18.93	0.025	57.81
305	48.75	0.025	85.58
310	93.83	0.025	111.69
315	147.62	0.025	133.31
320	206.48	0.025	151.32
325	267.13	0.025	166.10
330	326.60	0.025	178.27
335	382.38	0.025	188.23
340	432.42	0.025	196.14
345	475.18	0.025	202.35
350	509.56	0.025	206.95
355	534.82	0.025	210.23

Contour type : Ground Wave
 Signal strength : 1000.000 mV/m
 Area covered : 0.200 sq. km
 Population covered: 0 persons

Azimuth	Field	Contour	Distance
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Degrees	mV/m @ 1 kM	mV/m	kM
0	550.53	1000.000	0.52
5	556.45	1000.000	0.52
10	552.51	1000.000	0.52
15	538.74	1000.000	0.51
20	515.36	1000.000	0.48
25	482.75	1000.000	0.46
30	441.60	1000.000	0.42
35	392.90	1000.000	0.37
40	338.12	1000.000	0.32
45	279.20	1000.000	0.27
50	218.57	1000.000	0.21
55	159.10	1000.000	0.15
60	104.01	1000.000	0.10
65	56.86	1000.000	0.10
70	22.93	1000.000	0.10
75	18.02	1000.000	0.10
80	25.63	1000.000	0.10
85	23.43	1000.000	0.10
90	15.78	1000.000	0.10
95	31.00	1000.000	0.10
100	64.74	1000.000	0.10
105	104.77	1000.000	0.10
110	145.95	1000.000	0.14
115	184.30	1000.000	0.18
120	216.56	1000.000	0.21
125	240.40	1000.000	0.23
130	254.53	1000.000	0.24
135	258.72	1000.000	0.25
140	253.67	1000.000	0.24
145	240.86	1000.000	0.23
150	222.27	1000.000	0.21
155	200.15	1000.000	0.19
160	176.80	1000.000	0.17

165	154.38	1000.000	0.15
170	134.76	1000.000	0.13
175	119.46	1000.000	0.12
180	109.58	1000.000	0.11
185	105.78	1000.000	0.10
190	108.32	1000.000	0.11
195	117.02	1000.000	0.11
200	131.31	1000.000	0.13
205	150.18	1000.000	0.15
210	172.18	1000.000	0.17
215	195.51	1000.000	0.19
220	218.06	1000.000	0.21
225	237.54	1000.000	0.23
230	251.67	1000.000	0.24
235	258.41	1000.000	0.25
240	256.15	1000.000	0.25
245	244.03	1000.000	0.23
250	222.06	1000.000	0.21
255	191.33	1000.000	0.18
260	153.96	1000.000	0.15
265	113.05	1000.000	0.11
270	72.44	1000.000	0.10
275	36.89	1000.000	0.10
280	16.17	1000.000	0.10
285	21.82	1000.000	0.10
290	26.07	1000.000	0.10
295	19.92	1000.000	0.10
300	18.93	1000.000	0.10
305	48.75	1000.000	0.10
310	93.83	1000.000	0.10
315	147.62	1000.000	0.14
320	206.48	1000.000	0.20
325	267.13	1000.000	0.26
330	326.60	1000.000	0.31

335	382.38	1000.000	0.36
340	432.42	1000.000	0.41
345	475.18	1000.000	0.45
350	509.56	1000.000	0.48
355	534.82	1000.000	0.50

