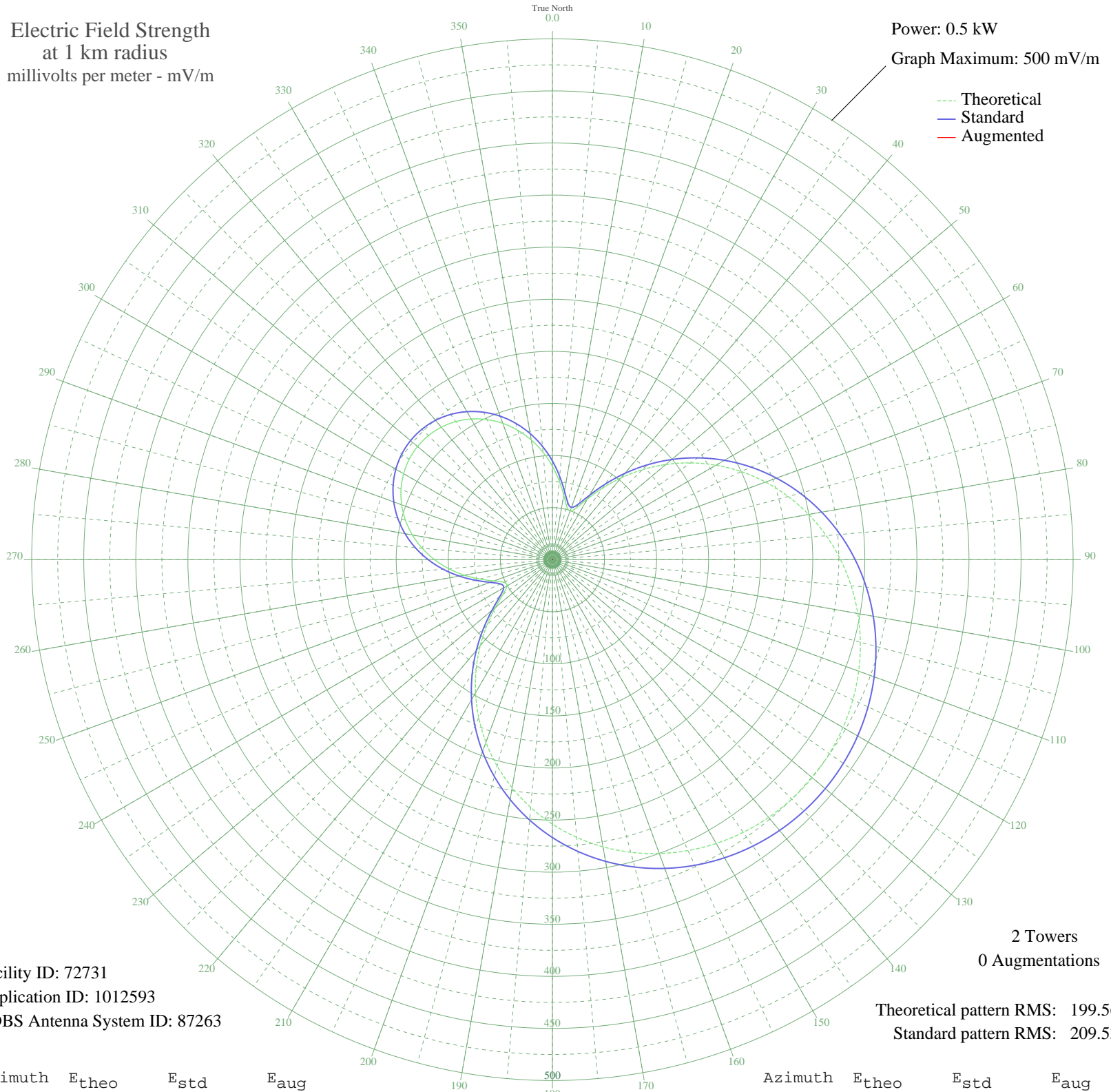


# WGAI ELIZABETH CITY, NC BL-20040831ACS 560 kHz

Nighttime

Electric Field Strength  
at 1 km radius  
millivolts per meter - mV/m

Power: 0.5 kW  
Graph Maximum: 500 mV/m



Facility ID: 72731  
Application ID: 1012593  
CDBS Antenna System ID: 87263

2 Towers  
0 Augmentations

Theoretical pattern RMS: 199.56  
Standard pattern RMS: 209.53

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	89.69	94.76	
5	75.76	80.24	
10	62.87	66.84	
15	53.16	56.80	
20	49.85	53.39	
25	55.03	58.73	
30	67.28	71.42	
35	83.75	88.57	
40	102.41	108.05	
45	122.09	128.63	
50	142.10	149.58	
55	161.97	170.40	
60	181.37	190.73	
65	200.05	210.31	
70	217.79	228.92	
75	234.44	246.39	
80	249.87	262.57	
85	263.98	277.38	
90	276.70	290.72	
95	287.98	302.56	
100	297.80	312.86	
105	306.13	321.61	
110	312.97	328.79	
115	318.33	334.41	
120	322.21	338.48	
125	324.61	341.00	
130	325.54	341.98	
135	325.01	341.42	
140	323.01	339.32	
145	319.53	335.67	
150	314.58	330.47	
155	308.14	323.72	
160	300.21	315.40	
165	290.80	305.52	
170	279.91	294.10	
175	267.58	281.15	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	253.84	266.74	
185	238.76	250.92	
190	222.43	233.79	
195	204.97	215.48	
200	186.54	196.14	
205	167.31	175.99	
210	147.54	155.27	
215	127.53	134.31	
220	107.70	113.57	
225	88.67	93.70	
230	71.45	75.76	
235	57.79	61.58	
240	50.42	53.97	
245	51.49	55.07	
250	59.79	63.66	
255	72.08	76.41	
260	85.88	90.78	
265	99.81	105.33	
270	113.14	119.26	
275	125.45	132.14	
280	136.48	143.68	
285	146.04	153.70	
290	154.03	162.07	
295	160.37	168.72	
300	165.00	173.57	
305	167.89	176.60	
310	169.01	177.78	
315	168.37	177.10	
320	165.96	174.57	
325	161.80	170.22	
330	155.92	164.06	
335	148.37	156.15	
340	139.23	146.57	
345	128.59	135.42	
350	116.61	122.89	
355	103.52	109.20	

The theoretical pattern is used to create the standard pattern. Augmentations (if any) expand the standard pattern in specified directions. See Sections 73.150 and 73.152 of the FCC's Rules.

AM coverage may not mirror the pattern shown here. Additional factors such as ground conductivity or skywave propagation affect how far the AM signal will travel.

Patterns for stations outside the USA are based on notified parameters.

AM directional patterns created before 1982 used units of 1 mV/m at 1 mile, not one kilometer. The pattern values on such plots at 1 mile will be 0.62137 of the values listed here. Measured pattern values may vary from values shown here.

Plot is best printed on 11" by 17" or larger paper.

20 Nov 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission