

Larry Waggoner

Project: WSWS Curves: VHF Low Band for 88 MHz to 108 MHz

Site Coordinates: 38-56-35 North 89-06-13 West

NGDC 30-Second Database for Continental US.

DEM-30 Database for AK, HI, and PR.

Site Elevation AMSL: ( 605 feet), 184 meters

Antenna HAAT: 110 meters

Antenna Center Above Sea Level: 266 meters

TV/FM Channel: 210

Directional Pattern

----- DISTANCES TO CONTOURS IN KILOMETERS -----							
AZM	HAAT	ERP	70 dB	60 dB	100 dB	54 dB	40 dB
(deg)	(m)	(kW)	(km)	(km)	(km)	(km)	(km)
			50,50	50,50	50,10	50,10	50,10
0	105	2.000	12.5	22.5	2.0	33.6	70.8
5	112	2.000	12.9	23.1	2.1	34.7	72.0
10	120	2.000	13.4	23.9	2.1	36.0	73.3
15	123	2.000	13.5	24.1	2.1	36.4	73.8
20	122	2.000	13.5	24.1	2.1	36.3	73.7
25	121	2.000	13.4	24.0	2.1	36.1	73.5
30	121	2.000	13.4	24.0	2.1	36.1	73.5
35	118	1.725	12.8	22.9	2.0	34.3	70.9
40	114	1.384	11.9	21.4	1.9	31.8	67.1
45	112	1.133	11.2	20.3	1.7	30.0	64.1
50	111	1.040	11.0	19.7	1.7	29.2	62.8
55	111	1.151	11.2	20.2	1.7	29.9	64.1
60	109	1.367	11.6	20.9	1.8	31.0	66.1
65	108	1.706	12.2	21.9	2.0	32.7	69.0
70	107	2.000	12.6	22.7	2.1	33.9	71.1
75	107	1.716	12.2	21.9	2.0	32.6	68.9
80	108	1.405	11.6	21.0	1.8	31.1	66.3
85	107	1.177	11.1	20.0	1.7	29.5	63.7
90	108	0.9716	10.6	19.1	1.6	28.3	61.3
95	107	0.7902	10.1	18.0	1.6	26.7	58.6
100	108	0.6334	9.6	17.1	1.4	25.4	56.1
105	108	0.5091	9.1	16.1	1.4	24.0	53.6
110	111	0.4127	8.7	15.4	1.3	23.1	51.7
115	112	0.3332	8.3	14.7	1.2	22.0	49.5
120	109	0.2690	7.7	13.7	1.1	20.5	46.6
125	107	0.2175	7.3	12.9	1.0	19.1	43.9
130	107	0.1753	6.9	12.2	1.0	17.9	41.7
135	109	0.1406	6.6	11.7	0.9	16.9	39.7
140	111	0.1142	6.4	11.2	0.8	16.1	38.0
145	109	0.0960	6.0	10.6	0.8	15.2	36.0
150	110	0.0832	5.8	10.3	0.8	14.6	34.8
155	110	0.0733	5.7	10.0	0.7	14.2	33.7
160	115	0.0672	5.7	10.0	0.7	14.2	33.7
165	116	0.0651	5.6	10.0	0.7	14.1	33.6
170	117	0.0652	5.7	10.0	0.6	14.2	33.7
175	119	0.0670	5.8	10.2	0.6	14.4	34.3

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AZM	HAAT	ERP	70 dB	60 dB	100 dB	54 dB	40 dB
(deg)	(m)	(kW)	(km)	(km)	(km)	(km)	(km)
			50,50	50,50	50,10	50,10	50,10

180	120	0.0695	5.8	10.3	0.8	14.6	34.7
185	122	0.0745	6.0	10.6	0.8	15.0	35.6
190	125	0.0811	6.2	10.9	0.8	15.6	36.8
195	127	0.0899	6.4	11.3	0.8	16.2	38.1
200	130	0.1095	6.8	12.0	0.8	17.5	40.4
205	129	0.1373	7.1	12.6	0.9	18.6	42.5
210	127	0.1717	7.5	13.2	1.0	19.7	44.6
215	120	0.2139	7.7	13.6	1.1	20.3	45.9
220	115	0.2679	7.9	14.1	1.1	21.0	47.6
225	114	0.3346	8.4	14.8	1.2	22.2	49.9
230	111	0.4195	8.7	15.5	1.3	23.2	51.9
235	109	0.5243	9.2	16.3	1.4	24.3	54.1
240	108	0.6544	9.6	17.2	1.5	25.6	56.5
245	109	0.8192	10.2	18.4	1.5	27.2	59.4
250	113	1.022	11.0	19.8	1.7	29.3	62.9
255	113	1.280	11.6	21.0	1.8	31.1	65.9
260	111	1.598	12.2	21.9	1.9	32.6	68.6
265	111	2.000	12.9	23.0	2.1	34.6	71.8
270	109	2.000	12.8	22.9	2.1	34.3	71.5
275	107	2.000	12.6	22.7	2.1	33.9	71.1
280	107	2.000	12.6	22.7	2.1	33.9	71.1
285	106	2.000	12.6	22.6	2.0	33.8	70.9
290	108	2.000	12.7	22.8	2.1	34.1	71.3
295	107	2.000	12.6	22.7	2.1	33.9	71.1
300	104	2.000	12.5	22.4	2.0	33.4	70.6
305	102	2.000	12.3	22.2	2.0	33.1	70.2
310	102	2.000	12.3	22.2	2.0	33.1	70.2
315	100	2.000	12.2	22.0	2.0	32.8	69.8
320	100	2.000	12.2	22.0	2.0	32.8	69.8
325	100	2.000	12.2	22.0	2.0	32.8	69.8
330	101	2.000	12.3	22.1	2.0	32.9	70.0
335	101	2.000	12.3	22.1	2.0	32.9	70.0
340	102	2.000	12.3	22.2	2.0	33.1	70.2
345	101	2.000	12.3	22.1	2.0	32.9	70.0
350	102	2.000	12.3	22.2	2.0	33.1	70.2
355	106	2.000	12.6	22.6	2.0	33.8	70.9