

Larry Waggoner

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

Site Coordinates: 35-37-16 North 99-22-32 West

NGDC 30-Second Database for Continental US.

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

Site Elevation AMSL: (1801 feet), 549 meters

Antenna HAAT: 90 meters

Antenna Center Above Sea Level: 647 meters

TV/FM Channel: 210

----- 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	94	26.50	22.7	38.4	4.0	59.7	114.1
5	104	26.50	23.9	40.1	4.2	61.7	115.8
10	107	26.50	24.2	40.6	4.3	62.2	116.4
15	107	26.50	24.2	40.6	4.3	62.2	116.4
20	100	26.50	23.4	39.5	4.1	60.9	115.1
25	104	26.50	23.9	40.1	4.2	61.7	115.8
30	111	26.50	24.6	41.1	4.3	62.9	117.1
35	114	26.50	24.9	41.6	4.4	63.5	117.6
40	105	26.50	24.0	40.3	4.2	61.9	116.0
45	101	26.50	23.5	39.7	4.1	61.1	115.3
50	98	26.50	23.2	39.1	4.1	60.5	114.7
55	103	26.50	23.8	40.0	4.2	61.5	115.6
60	108	26.50	24.3	40.7	4.3	62.4	116.5
65	110	26.50	24.5	41.0	4.3	62.8	116.9
70	113	26.50	24.8	41.4	4.4	63.3	117.4
75	114	26.50	24.9	41.6	4.4	63.5	117.6
80	116	26.50	25.1	41.9	4.4	63.8	117.9
85	116	26.50	25.1	41.9	4.4	63.8	117.9
90	116	26.50	25.1	41.9	4.4	63.8	117.9
95	117	26.50	25.2	42.0	4.5	64.0	118.1
100	124	26.50	25.8	43.0	4.6	65.2	119.3
105	125	26.50	25.9	43.1	4.6	65.4	119.4
110	126	26.50	26.0	43.3	4.6	65.5	119.6
115	125	26.50	25.9	43.1	4.6	65.4	119.4
120	122	26.50	25.7	42.7	4.5	64.8	118.9
125	117	26.50	25.2	42.0	4.5	64.0	118.1
130	110	26.50	24.5	41.0	4.3	62.8	116.9
135	105	26.50	24.0	40.3	4.2	61.9	116.0
140	102	26.50	23.6	39.8	4.2	61.3	115.5
145	95	26.50	22.9	38.6	4.0	59.9	114.2
150	91	26.50	22.4	37.8	3.9	59.1	113.5
155	88	26.50	22.0	37.2	3.9	58.5	113.0
160	82	26.50	21.3	36.0	3.7	57.2	111.8
165	76	26.50	20.5	34.8	3.6	55.7	110.7
170	71	26.50	19.9	33.8	3.5	54.5	109.8
175	60	26.50	18.3	31.4	3.2	51.3	107.7

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180 59 26.50 18.1 31.1 3.2 50.9 107.5  
185 63 26.50 18.7 32.1 3.3 52.3 108.3  
190 59 26.50 18.1 31.1 3.2 50.9 107.5  
195 47 26.50 16.0 28.0 2.9 46.1 104.9  
200 46 26.50 15.8 27.7 2.8 45.6 104.7  
205 58 26.50 17.9 30.9 3.2 50.6 107.3  
210 61 26.50 18.4 31.6 3.2 51.6 107.9  
215 58 26.50 17.9 30.9 3.2 50.6 107.3  
220 61 26.50 18.4 31.6 3.2 51.6 107.9  
225 67 26.50 19.3 32.9 3.4 53.4 109.1  
230 73 26.50 20.1 34.2 3.5 55.0 110.2  
235 79 26.50 20.9 35.4 3.7 56.5 111.3  
240 83 26.50 21.4 36.2 3.7 57.4 112.0  
245 91 26.50 22.4 37.8 3.9 59.1 113.5  
250 95 26.50 22.9 38.6 4.0 59.9 114.2  
255 99 26.50 23.3 39.3 4.1 60.7 114.9  
260 104 26.50 23.9 40.1 4.2 61.7 115.8  
265 103 26.50 23.8 40.0 4.2 61.5 115.6  
270 91 26.50 22.4 37.8 3.9 59.1 113.5  
275 83 26.50 21.4 36.2 3.7 57.4 112.0  
280 78 26.50 20.8 35.2 3.6 56.2 111.1  
285 83 26.50 21.4 36.2 3.7 57.4 112.0  
290 87 26.50 21.9 37.0 3.8 58.3 112.8  
295 82 26.50 21.3 36.0 3.7 57.2 111.8  
300 85 26.50 21.7 36.6 3.8 57.8 112.4  
305 88 26.50 22.0 37.2 3.9 58.5 113.0  
310 86 26.50 21.8 36.8 3.8 58.0 112.6  
315 84 26.50 21.5 36.4 3.8 57.6 112.2  
320 79 26.50 20.9 35.4 3.7 56.5 111.3  
325 79 26.50 20.9 35.4 3.7 56.5 111.3  
330 83 26.50 21.4 36.2 3.7 57.4 112.0  
335 88 26.50 22.0 37.2 3.9 58.5 113.0  
340 97 26.50 23.1 38.9 4.1 60.3 114.6  
345 104 26.50 23.9 40.1 4.2 61.7 115.8  
350 106 26.50 24.1 40.4 4.2 62.0 116.2  
355 100 26.50 23.4 39.5 4.1 60.9 115.1