

Larry Waggoner

Project: KJRF C1 Curves: VHF Low Band for 88 mHz to 108 mHz

Site Coordinates: 34-41-22 North 98-07-34 West

NGDC 30-Second Database for Continental US.

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

Site Elevation AMSL: (1198 feet), 365 meters

Antenna HAAT: 126 meters

Antenna Center Above Sea Level: 492 meters

TV/FM Channel: 216

Vertical 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	109	11.97	20.3	34.4	3.4	53.0	99.8
5	107	9.43	18.9	32.3	3.2	50.0	95.2
10	108	7.800	18.0	31.1	3.0	48.0	92.2
15	104	7.128	17.3	29.9	2.9	46.3	90.1
20	102	6.607	16.7	29.2	2.8	45.1	88.5
25	102	5.676	16.1	28.2	2.7	43.4	86.0
30	96	4.909	15.0	26.5	2.5	40.7	82.8
35	93	5.029	14.8	26.2	2.5	40.3	82.6
40	90	5.990	15.2	26.9	2.6	41.4	84.8
45	87	7.396	15.8	27.7	2.7	43.0	87.8
50	88	9.19	16.8	29.3	2.9	45.7	91.6
55	92	11.53	18.4	31.5	3.1	49.3	96.3
60	97	14.10	19.9	33.8	3.4	52.7	100.9
65	100	16.55	21.0	35.5	3.6	55.1	104.6
70	104	18.47	22.0	37.1	3.8	57.2	107.5
75	105	19.77	22.4	37.8	3.9	58.2	109.2
80	110	21.00	23.2	39.1	4.0	59.8	111.4
85	115	22.41	24.0	40.4	4.2	61.5	113.7
90	117	23.33	24.5	41.0	4.3	62.3	115.0
95	118	21.34	24.1	40.4	4.2	61.4	113.1
100	118	17.78	23.1	38.9	4.0	59.1	109.0
105	120	14.78	22.3	37.6	3.8	57.2	105.6
110	121	12.06	21.4	36.1	3.6	55.0	101.8
115	124	9.85	20.6	34.8	3.4	53.2	98.6
120	127	8.698	20.2	34.2	3.4	52.3	97.0
125	127	9.46	20.6	34.9	3.4	53.2	98.4
130	129	11.74	21.8	36.9	3.7	55.9	102.6
135	131	14.55	23.1	38.9	4.0	58.8	107.1
140	135	18.02	24.6	41.2	4.3	62.0	112.2
145	138	22.37	26.1	43.4	4.6	65.2	117.6
150	143	27.66	27.8	45.9	5.0	68.9	123.3
155	144	34.27	29.3	47.9	5.3	71.9	128.5
160	146	42.44	30.9	50.1	5.6	75.1	133.5
165	146	52.75	32.5	52.0	6.0	78.2	138.4
170	150	65.12	34.5	54.4	6.4	81.8	143.8
175	151	85.30	36.8	57.0	6.8	85.8	150.7

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(deg)	(m)	(kW)	(km)	(km)	(km)	(km)	(km)
			50,50	50,50	50,10	50,10	50,10

180	149	100.00	38.0	58.3	7.1	87.9	154.6
185	152	100.00	38.3	58.6	7.1	88.3	155.0
190	157	100.00	38.9	59.2	7.3	89.0	155.9
195	158	100.00	39.0	59.4	7.3	89.2	156.0
200	160	100.00	39.2	59.6	7.3	89.4	156.3
205	161	100.00	39.3	59.7	7.4	89.6	156.5
210	159	100.00	39.1	59.5	7.3	89.3	156.2
215	159	100.00	39.1	59.5	7.3	89.3	156.2
220	158	100.00	39.0	59.4	7.3	89.2	156.0
225	155	100.00	38.7	59.0	7.2	88.7	155.5
230	150	100.00	38.1	58.4	7.1	88.0	154.7
235	146	100.00	37.6	57.8	7.0	87.5	154.1
240	143	100.00	37.3	57.4	6.9	87.0	153.6
245	141	100.00	37.0	57.2	6.9	86.8	153.3
250	142	100.00	37.2	57.3	6.9	86.9	153.5
255	142	100.00	37.2	57.3	6.9	86.9	153.5
260	141	100.00	37.0	57.2	6.9	86.8	153.3
265	140	91.20	36.2	56.2	6.7	85.2	150.8
270	140	77.60	34.8	54.7	6.4	82.9	146.7
275	140	67.79	33.8	53.5	6.2	80.9	143.4
280	137	58.97	32.4	51.8	6.0	78.5	139.7
285	133	56.02	31.6	50.8	5.8	77.1	138.0
290	131	60.89	32.0	51.3	5.9	78.0	139.6
295	128	71.96	32.9	52.3	6.1	79.9	143.1
300	125	85.01	33.8	53.4	6.3	81.9	146.6
305	121	97.11	34.3	54.0	6.4	83.2	149.2
310	119	100.00	34.3	53.9	6.4	83.4	149.7
315	120	82.97	33.0	52.4	6.1	80.8	145.2
320	119	64.50	31.1	50.1	5.7	76.8	139.1
325	116	53.08	29.4	47.8	5.3	73.5	134.3
330	117	43.25	28.2	46.1	5.1	70.7	129.9
335	114	34.99	26.5	43.9	4.7	67.2	124.2
340	111	28.19	24.9	41.7	4.4	63.8	118.6
345	109	22.85	23.6	39.6	4.1	60.7	113.2
350	108	18.37	22.3	37.7	3.9	57.8	108.1
355	109	14.99	21.4	36.1	3.7	55.6	104.1