

Larry Waggoner

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

Site Coordinates: 38-09-57 North 95-32-19 West

NGDC 30-Second Database for Continental US.

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

Site Elevation AMSL: (1178 feet), 359 meters

Antenna HAAT: 178 meters

Antenna Center Above Sea Level: 502 meters

TV/FM Channel: 249

| ----- 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 | 149 | 17.20 | 25.4 | 42.5 | 4.4 | 63.5 | 113.4 |
| 5 | 156 | 17.20 | 25.9 | 43.3 | 4.5 | 64.6 | 114.5 |
| 10 | 160 | 17.20 | 26.2 | 43.8 | 4.6 | 65.1 | 115.1 |
| 15 | 163 | 17.20 | 26.4 | 44.1 | 4.6 | 65.6 | 115.5 |
| 20 | 164 | 17.20 | 26.5 | 44.2 | 4.6 | 65.7 | 115.7 |
| 25 | 168 | 17.20 | 26.8 | 44.7 | 4.7 | 66.3 | 116.3 |
| 30 | 173 | 17.20 | 27.2 | 45.2 | 4.8 | 67.0 | 117.0 |
| 35 | 181 | 17.20 | 27.8 | 46.0 | 4.9 | 68.1 | 118.1 |
| 40 | 184 | 17.20 | 28.0 | 46.3 | 4.9 | 68.5 | 118.5 |
| 45 | 182 | 17.20 | 27.8 | 46.1 | 4.9 | 68.2 | 118.2 |
| 50 | 180 | 17.20 | 27.7 | 45.9 | 4.8 | 68.0 | 118.0 |
| 55 | 181 | 17.20 | 27.8 | 46.0 | 4.9 | 68.1 | 118.1 |
| 60 | 182 | 17.20 | 27.8 | 46.1 | 4.9 | 68.2 | 118.2 |
| 65 | 184 | 17.20 | 28.0 | 46.3 | 4.9 | 68.5 | 118.5 |
| 70 | 181 | 17.20 | 27.8 | 46.0 | 4.9 | 68.1 | 118.1 |
| 75 | 178 | 17.20 | 27.5 | 45.7 | 4.8 | 67.7 | 117.7 |
| 80 | 180 | 17.20 | 27.7 | 45.9 | 4.8 | 68.0 | 118.0 |
| 85 | 180 | 17.20 | 27.7 | 45.9 | 4.8 | 68.0 | 118.0 |
| 90 | 181 | 17.20 | 27.8 | 46.0 | 4.9 | 68.1 | 118.1 |
| 95 | 180 | 17.20 | 27.7 | 45.9 | 4.8 | 68.0 | 118.0 |
| 100 | 179 | 17.20 | 27.6 | 45.8 | 4.8 | 67.8 | 117.9 |
| 105 | 176 | 17.20 | 27.4 | 45.5 | 4.8 | 67.4 | 117.4 |
| 110 | 174 | 17.20 | 27.3 | 45.3 | 4.8 | 67.1 | 117.2 |
| 115 | 173 | 17.20 | 27.2 | 45.2 | 4.8 | 67.0 | 117.0 |
| 120 | 173 | 17.20 | 27.2 | 45.2 | 4.8 | 67.0 | 117.0 |
| 125 | 174 | 17.20 | 27.3 | 45.3 | 4.8 | 67.1 | 117.2 |
| 130 | 178 | 17.20 | 27.5 | 45.7 | 4.8 | 67.7 | 117.7 |
| 135 | 179 | 17.20 | 27.6 | 45.8 | 4.8 | 67.8 | 117.9 |
| 140 | 179 | 17.20 | 27.6 | 45.8 | 4.8 | 67.8 | 117.9 |
| 145 | 180 | 17.20 | 27.7 | 45.9 | 4.8 | 68.0 | 118.0 |
| 150 | 182 | 17.20 | 27.8 | 46.1 | 4.9 | 68.2 | 118.2 |
| 155 | 180 | 17.20 | 27.7 | 45.9 | 4.8 | 68.0 | 118.0 |
| 160 | 182 | 17.20 | 27.8 | 46.1 | 4.9 | 68.2 | 118.2 |
| 165 | 183 | 17.20 | 27.9 | 46.2 | 4.9 | 68.4 | 118.4 |
| 170 | 183 | 17.20 | 27.9 | 46.2 | 4.9 | 68.4 | 118.4 |
| 175 | 184 | 17.20 | 28.0 | 46.3 | 4.9 | 68.5 | 118.5 |

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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 | 188 | 17.20 | 28.2 | 46.6 | 4.9 | 69.0 | 119.0 |
| 185 | 189 | 17.20 | 28.3 | 46.7 | 4.9 | 69.1 | 119.1 |
| 190 | 190 | 17.20 | 28.4 | 46.8 | 5.0 | 69.3 | 119.2 |
| 195 | 190 | 17.20 | 28.4 | 46.8 | 5.0 | 69.3 | 119.2 |
| 200 | 190 | 17.20 | 28.4 | 46.8 | 5.0 | 69.3 | 119.2 |
| 205 | 190 | 17.20 | 28.4 | 46.8 | 5.0 | 69.3 | 119.2 |
| 210 | 191 | 17.20 | 28.4 | 46.9 | 5.0 | 69.4 | 119.4 |
| 215 | 192 | 17.20 | 28.5 | 47.0 | 5.0 | 69.5 | 119.5 |
| 220 | 194 | 17.20 | 28.7 | 47.1 | 5.0 | 69.8 | 119.7 |
| 225 | 192 | 17.20 | 28.5 | 47.0 | 5.0 | 69.5 | 119.5 |
| 230 | 194 | 17.20 | 28.7 | 47.1 | 5.0 | 69.8 | 119.7 |
| 235 | 194 | 17.20 | 28.7 | 47.1 | 5.0 | 69.8 | 119.7 |
| 240 | 193 | 17.20 | 28.6 | 47.1 | 5.0 | 69.6 | 119.6 |
| 245 | 191 | 17.20 | 28.4 | 46.9 | 5.0 | 69.4 | 119.4 |
| 250 | 189 | 17.20 | 28.3 | 46.7 | 4.9 | 69.1 | 119.1 |
| 255 | 186 | 17.20 | 28.1 | 46.5 | 4.9 | 68.7 | 118.7 |
| 260 | 189 | 17.20 | 28.3 | 46.7 | 4.9 | 69.1 | 119.1 |
| 265 | 187 | 17.20 | 28.2 | 46.6 | 4.9 | 68.9 | 118.9 |
| 270 | 187 | 17.20 | 28.2 | 46.6 | 4.9 | 68.9 | 118.9 |
| 275 | 182 | 17.20 | 27.8 | 46.1 | 4.9 | 68.2 | 118.2 |
| 280 | 181 | 17.20 | 27.8 | 46.0 | 4.9 | 68.1 | 118.1 |
| 285 | 179 | 17.20 | 27.6 | 45.8 | 4.8 | 67.8 | 117.9 |
| 290 | 176 | 17.20 | 27.4 | 45.5 | 4.8 | 67.4 | 117.4 |
| 295 | 174 | 17.20 | 27.3 | 45.3 | 4.8 | 67.1 | 117.2 |
| 300 | 173 | 17.20 | 27.2 | 45.2 | 4.8 | 67.0 | 117.0 |
| 305 | 172 | 17.20 | 27.1 | 45.1 | 4.7 | 66.9 | 116.9 |
| 310 | 171 | 17.20 | 27.0 | 45.0 | 4.7 | 66.7 | 116.7 |
| 315 | 170 | 17.20 | 27.0 | 44.9 | 4.7 | 66.6 | 116.6 |
| 320 | 169 | 17.20 | 26.9 | 44.8 | 4.7 | 66.4 | 116.4 |
| 325 | 165 | 17.20 | 26.6 | 44.3 | 4.6 | 65.9 | 115.8 |
| 330 | 161 | 17.20 | 26.3 | 43.9 | 4.6 | 65.3 | 115.2 |
| 335 | 156 | 17.20 | 25.9 | 43.3 | 4.5 | 64.6 | 114.5 |
| 340 | 152 | 17.20 | 25.6 | 42.9 | 4.5 | 64.0 | 113.9 |
| 345 | 148 | 17.20 | 25.3 | 42.4 | 4.4 | 63.4 | 113.2 |
| 350 | 148 | 17.20 | 25.3 | 42.4 | 4.4 | 63.4 | 113.2 |
| 355 | 149 | 17.20 | 25.4 | 42.5 | 4.4 | 63.5 | 113.4 |