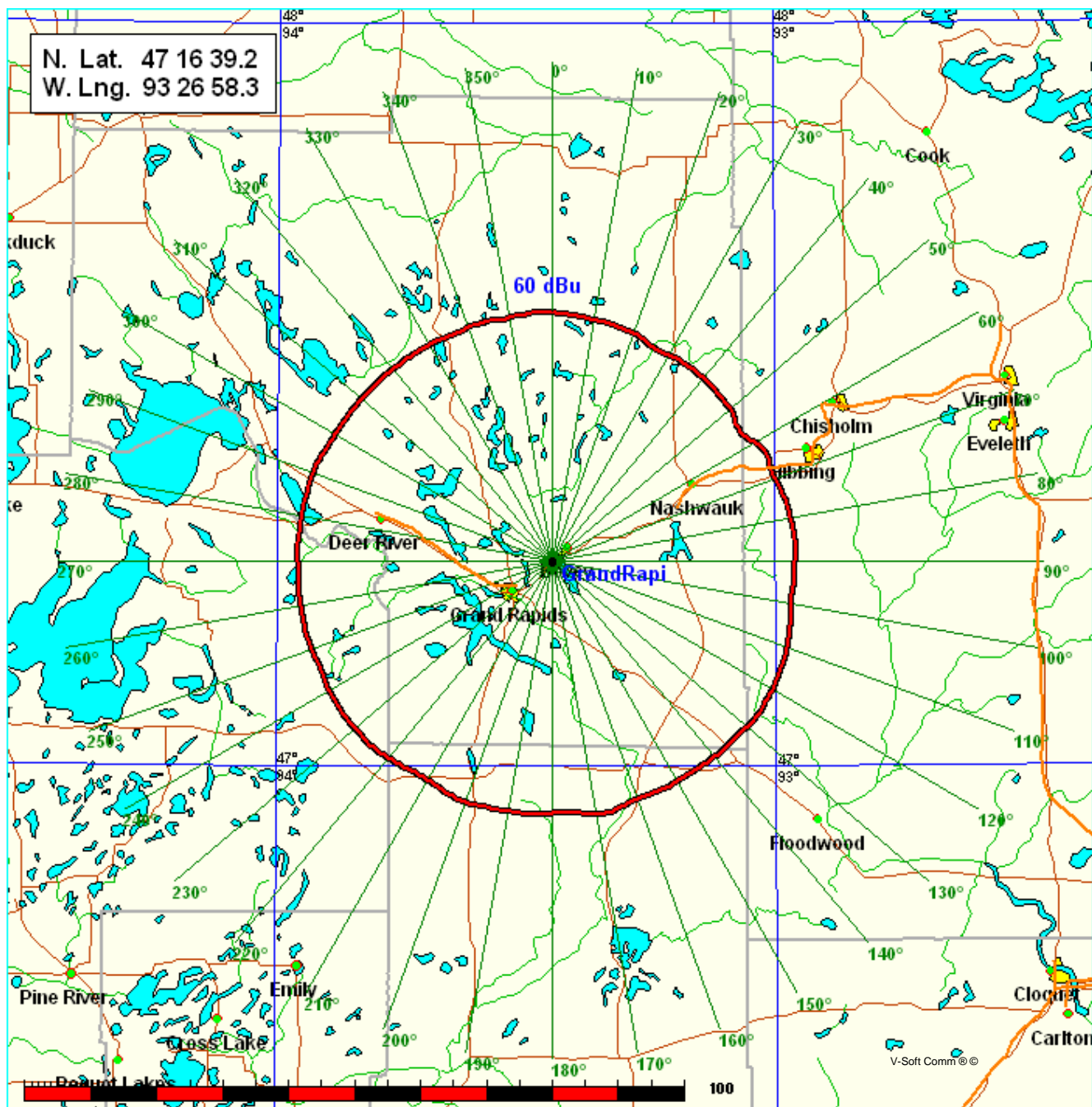


Minnesota Public Radio  
Grand Rapids 209 - 60 dBu Coverage

Coverage Study  
09-14-2007

GrandRapi CH209 C3 9.7 kW 548M COR  
Prot. = 60 dBu. Population = 40,969 Area = 4357.2 sq km



N. Lat. = 471639.2 W. Lng. = 932658.3

HAAT and Distance to Contour - FCC Method - USGS 03 SEC  
Grand Rapids 209 - Distance to 60 dBu Contour

Azi. AV EL HAAT ERP kW dBk Field 60-F5

000	409.1	138.9	9.7000	9.87	1.000	36.67
010	411.9	136.1	9.7000	9.87	1.000	36.35
020	416.4	131.6	9.7000	9.87	1.000	35.80
030	422.7	125.3	9.7000	9.87	1.000	35.07
040	419.8	128.2	9.7000	9.87	1.000	35.41
050	422.8	125.2	9.7000	9.87	1.000	35.06
060	421.1	126.9	9.7000	9.87	1.000	35.25
070	418.4	129.6	9.7000	9.87	1.000	35.57
080	411.0	137.0	9.7000	9.87	1.000	36.45
090	409.3	138.7	9.7000	9.87	1.000	36.66
100	408.5	139.5	9.7000	9.87	1.000	36.75
110	401.0	147.0	9.7000	9.87	1.000	37.65
120	396.0	152.0	9.7000	9.87	1.000	38.24
130	393.9	154.1	9.7000	9.87	1.000	38.49
140	397.5	150.5	9.7000	9.87	1.000	38.06
150	400.8	147.2	9.7000	9.87	1.000	37.66
160	401.1	146.9	9.7000	9.87	1.000	37.63
170	396.2	151.8	9.7000	9.87	1.000	38.22
180	402.6	145.4	9.7000	9.87	1.000	37.45
190	399.0	149.0	9.7000	9.87	1.000	37.88
200	398.7	149.3	9.7000	9.87	1.000	37.92
210	401.5	146.5	9.7000	9.87	1.000	37.58
220	395.4	152.6	9.7000	9.87	1.000	38.31
230	392.6	155.4	9.7000	9.87	1.000	38.64
240	393.1	154.9	9.7000	9.87	1.000	38.58
250	395.1	152.9	9.7000	9.87	1.000	38.35
260	395.3	152.7	9.7000	9.87	1.000	38.32
270	397.3	150.7	9.7000	9.87	1.000	38.08
280	395.0	153.0	9.7000	9.87	1.000	38.36
290	397.7	150.3	9.7000	9.87	1.000	38.04
300	403.1	144.9	9.7000	9.87	1.000	37.40
310	403.5	144.5	9.7000	9.87	1.000	37.34
320	406.6	141.4	9.7000	9.87	1.000	36.97
330	407.5	140.5	9.7000	9.87	1.000	36.87
340	409.0	139.0	9.7000	9.87	1.000	36.69
350	410.3	137.7	9.7000	9.87	1.000	36.54

Ave El= 404.46 M HAAT= 143.54 M AMSL= 548