

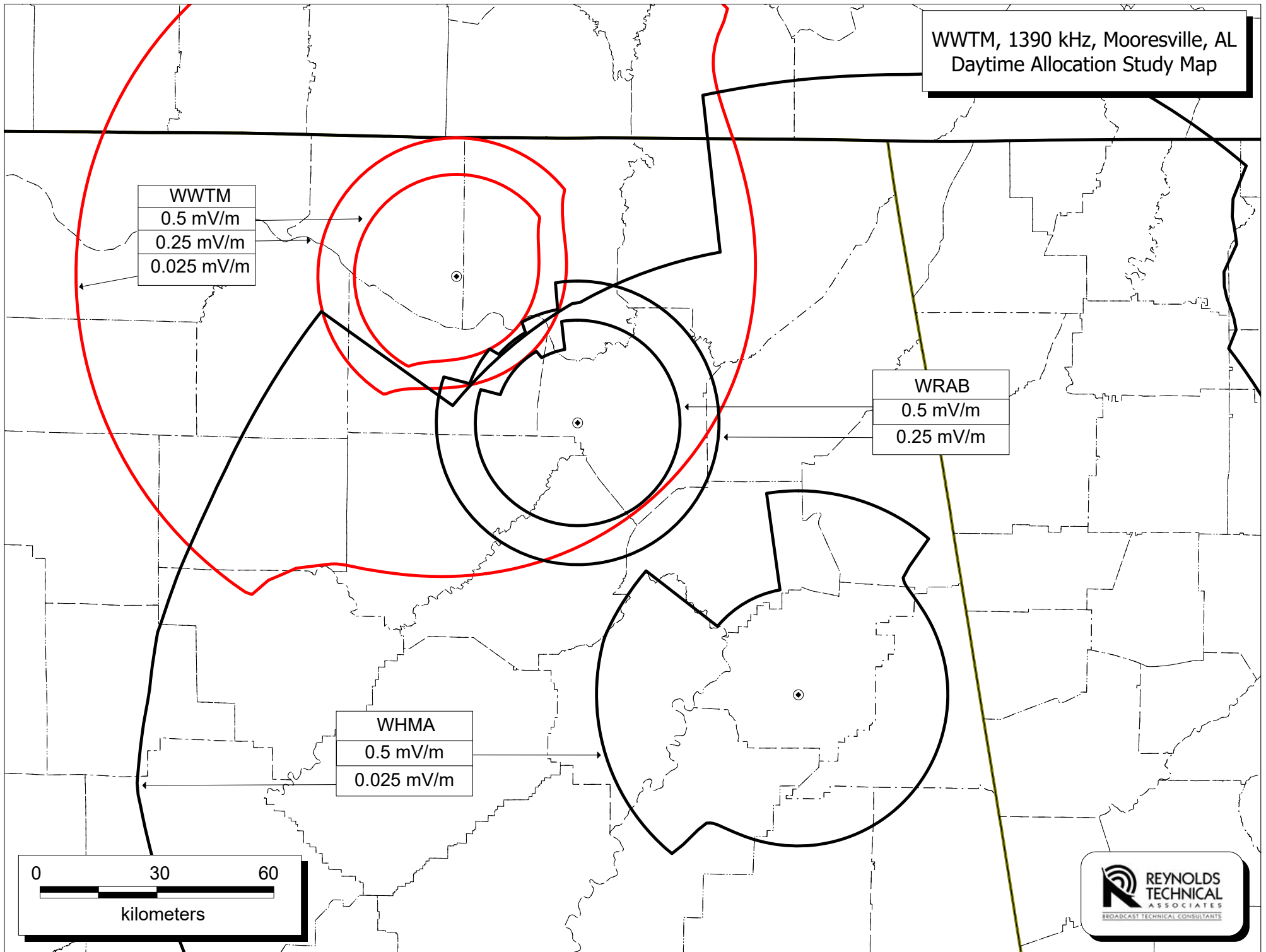
WWTM, 1390 kHz, Mooresville, AL
Daytime Allocation Study Map

WWTM
0.5 mV/m
0.25 mV/m
0.025 mV/m

WRAB
0.5 mV/m
0.25 mV/m

WHMA
0.5 mV/m
0.025 mV/m

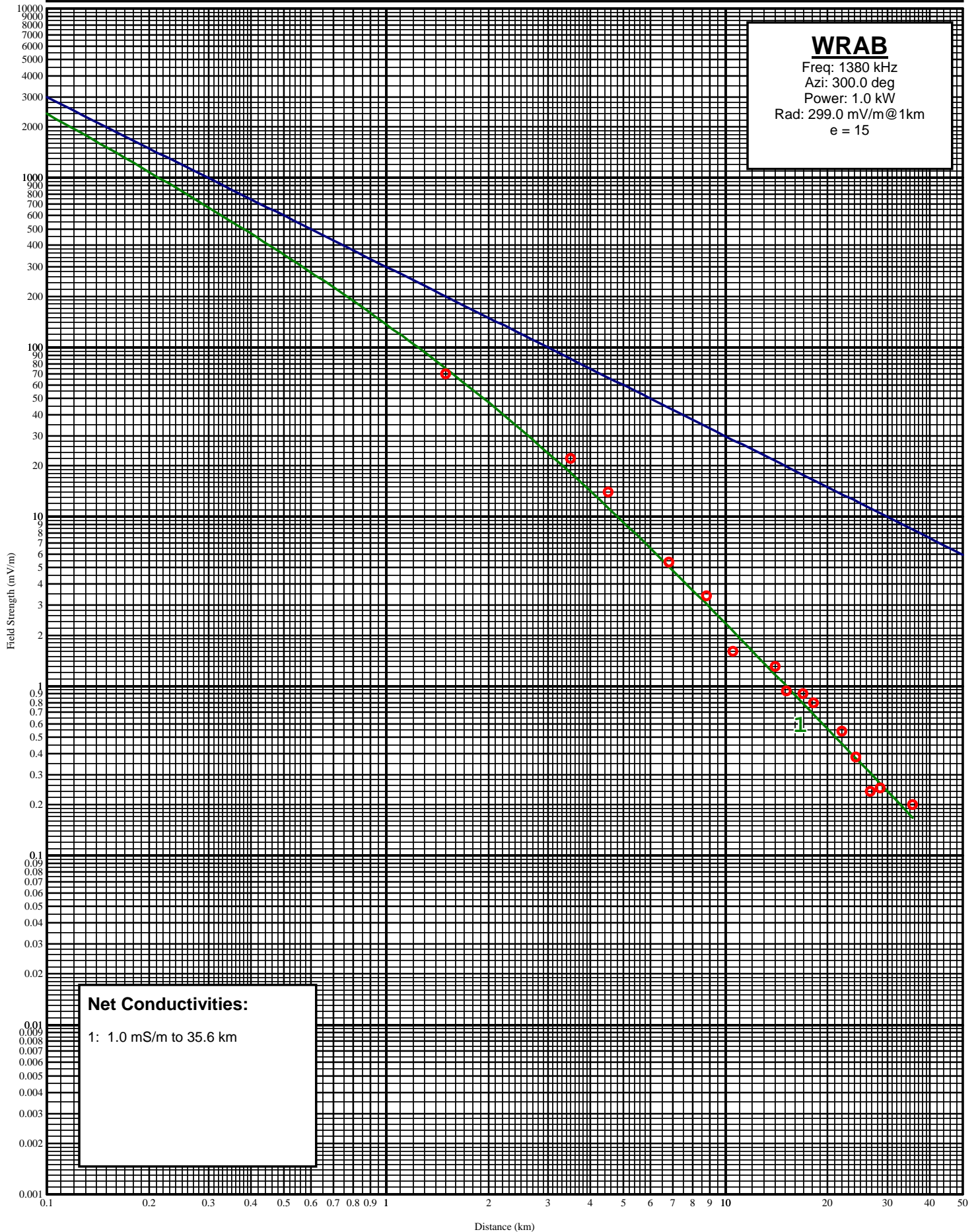
0 30 60
kilometers



<u>Latitude</u>	<u>Longitude</u>	<u>Distance from WRAB(AM) (km)</u>	<u>Signal Strength (mV/m)</u>	<u>Date</u>	<u>Time</u>	<u>Temp. (°F)</u>	<u>Relative Humidity</u>
		<u>300 degree radial</u>					
34-20-31.0	86-28-59.7	1.5	70	11/6/2017	1110	67	97
34-21-02.5	86-30-03.1	3.5	22	11/6/2017	1140	70	95
34-21-18.9	86-30-42.5	4.5	14	11/6/2017	1150	71	95
34-21-50.3	86-31-58.2	6.8	5.4	11/6/2017	1156	70	95
34-22-29.5	86-33-54.0	8.8	3.4	11/6/2017	1206	70	95
34-23-00.6	86-34-06.2	10.5	1.6	11/6/2017	1213	71	95
34-23-53.3	86-36-09.1	14.0	1.3	11/6/2017	1234	72	92
34-24-10.9	86-36-41.2	15.1	0.94	11/6/2017	1239	73	92
34-24-38.4	86-37-43.5	16.9	0.9	11/6/2017	1246	73	92
34-24-58.5	86-38-23.6	18.2	0.8	11/6/2017	1252	74	92
34-26-03.2	86-40-33.6	22.0	0.54	11/6/2017	1302	72	92
34-26-41.0	86-41-49.4	24.2	0.38	11/6/2017	1314	74	88
34-27-16.3	86-43-21.2	26.7	0.24	11/6/2017	1325	75	88
34-27-45.4	86-44-09.0	28.6	0.25	11/6/2017	1345	75	88
34-29-44.5	86-48-20.3	35.6	0.20	11/6/2017	1413	75	79
		<u>320 degree radial</u>					
34-20-37.6	86-28-39.2	1.3	110	11/6/2017	1119	67	97
34-21-04.2	86-29-07.7	2.4	62	11/6/2017	1134	70	95
34-21-39.9	86-29-40.7	3.8	16	11/7/2017	1025	70	98
34-22-16.2	86-30-14.2	5.1	9.8	11/7/2017	1040	70	98
34-22-55.4	86-31-03.0	6.9	6.4	11/7/2017	1046	71	98
34-23-23.3	86-31-32.3	8.0	3.9	11/7/2017	1051	71	98
34-24-21.0	86-32-28.7	10.3	2.0	11/7/2017	1101	71	93
34-25-40.0	86-33-44.0	13.5	1.2	11/7/2017	1112	71	90
34-26-44.8	86-34-54.4	16.1	0.7	11/6/2017	1553	72	79
34-27-50.9	86-36-08.2	18.9	0.54	11/6/2017	1544	71	79
34-29-10.4	86-37-23.2	21.9	0.50	11/6/2017	1535	71	79
34-30-00.9	86-38-14.1	24.1	0.30	11/6/2017	1527	71	79
34-31-16.1	86-39-26.5	27.0	0.20	11/6/2017	1503	75	87
34-32-18.0	86-40-21.0	29.5	0.23	11/6/2017	1451	74	87
34-33-45.8	86-42-01.4	33.1	0.19	11/6/2017	1433	75	79
		<u>340 degree radial</u>					
34-20-47.1	86-28-21.5	1.4	105	11/6/2017	1121	67	97
34-21-02.7	86-28-30.5	1.8	55	11/6/2017	1128	68	97
34-21-50.8	86-28-55.0	3.5	14	11/7/2017	1340	68	90
34-22-21.2	86-29-08.0	4.5	11	11/7/2017	1333	68	90
34-23-20.0	86-29-29.0	6.4	6.3	11/7/2017	1326	70	89
34-23-53.0	86-29-45.1	7.4	6.0	11/7/2017	1318	70	89
34-24-35.2	86-30-06.7	8.9	3.1	11/7/2017	1308	68	92
34-25-00.6	86-30-13.0	9.7	3.0	11/7/2017	1304	67	87
34-26-21.4	86-30-56.0	12.4	1.25	11/7/2017	1257	67	78
34-28-14.0	86-31-46.1	16.1	0.50	11/7/2017	1246	70	78
34-29-42.3	86-32-22.2	18.9	0.42	11/7/2017	1239	68	78
34-31-20.6	86-32-55.9	22.0	0.25	11/7/2017	1212	68	83
34-32-58.2	86-33-54.0	25.4	0.38	11/7/2017	1204	68	88
34-35-23.3	86-34-50.1	30.1	0.42	11/7/2017	1151	68	88
34-35-44.8	86-35-08.3	30.9	0.22	11/7/2017	1146	68	88

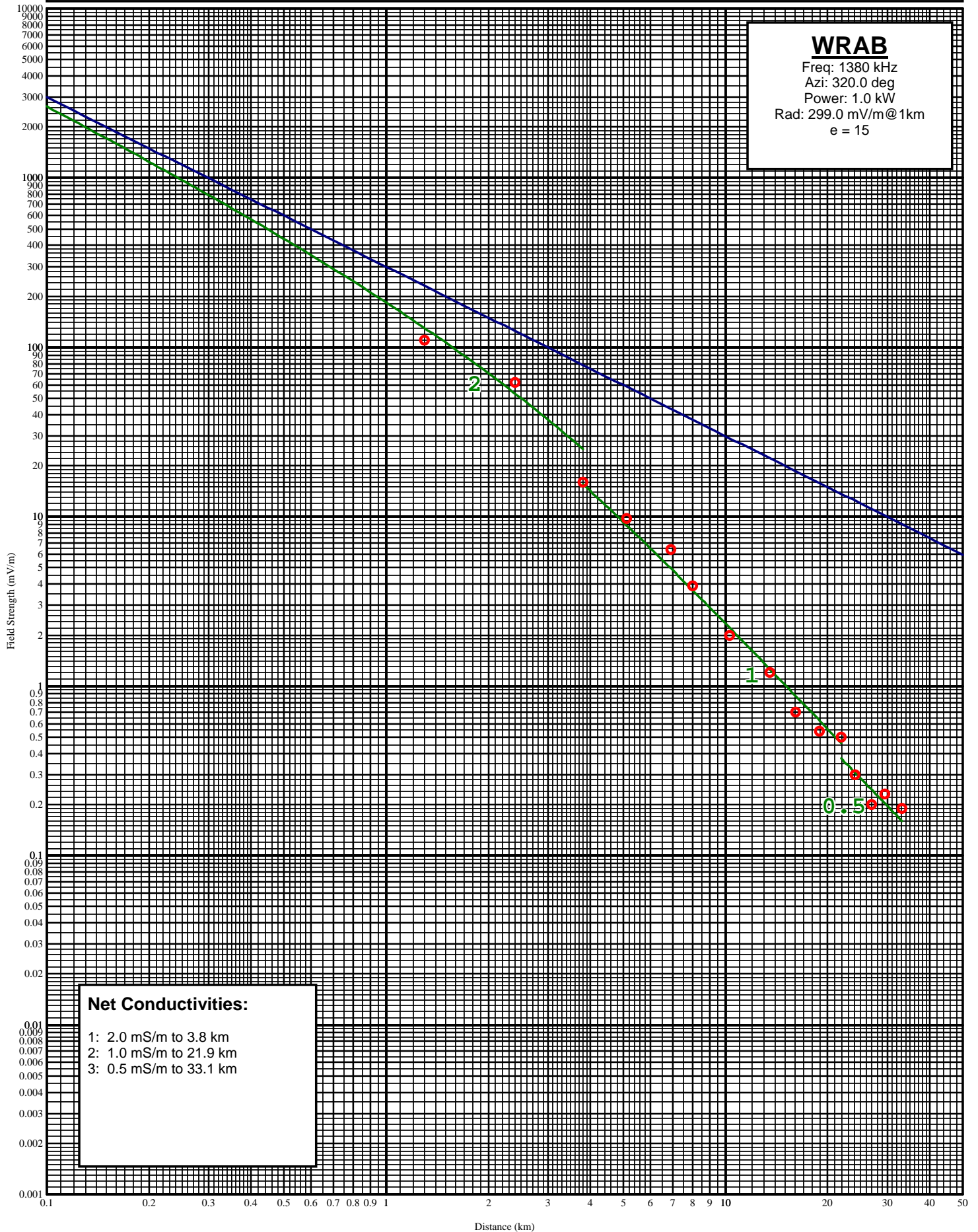
WRAB AM Measured Field Strength

Shown With Matching Conductivity Curves



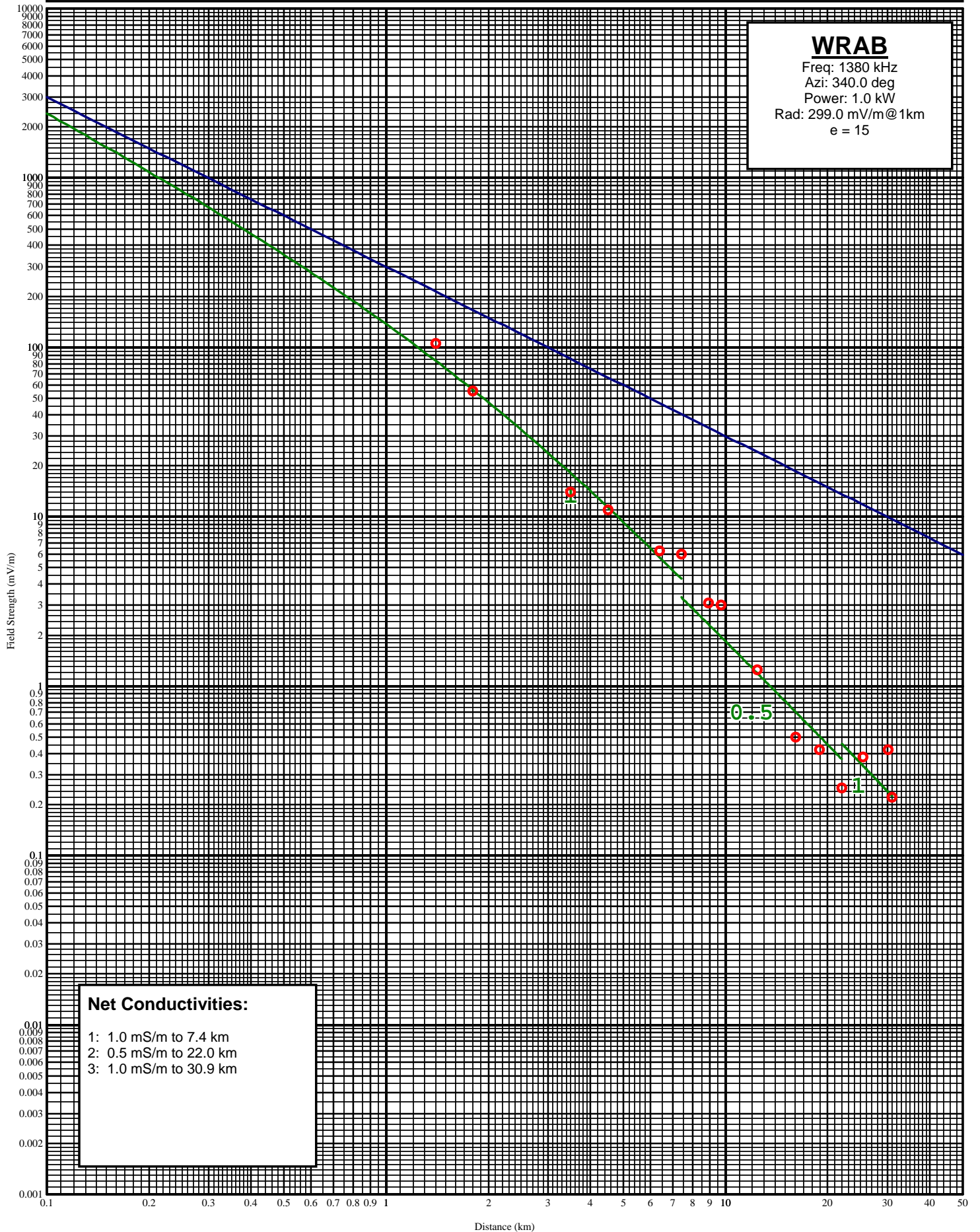
WRAB AM Measured Field Strength

Shown With Matching Conductivity Curves



WRAB AM Measured Field Strength

Shown With Matching Conductivity Curves

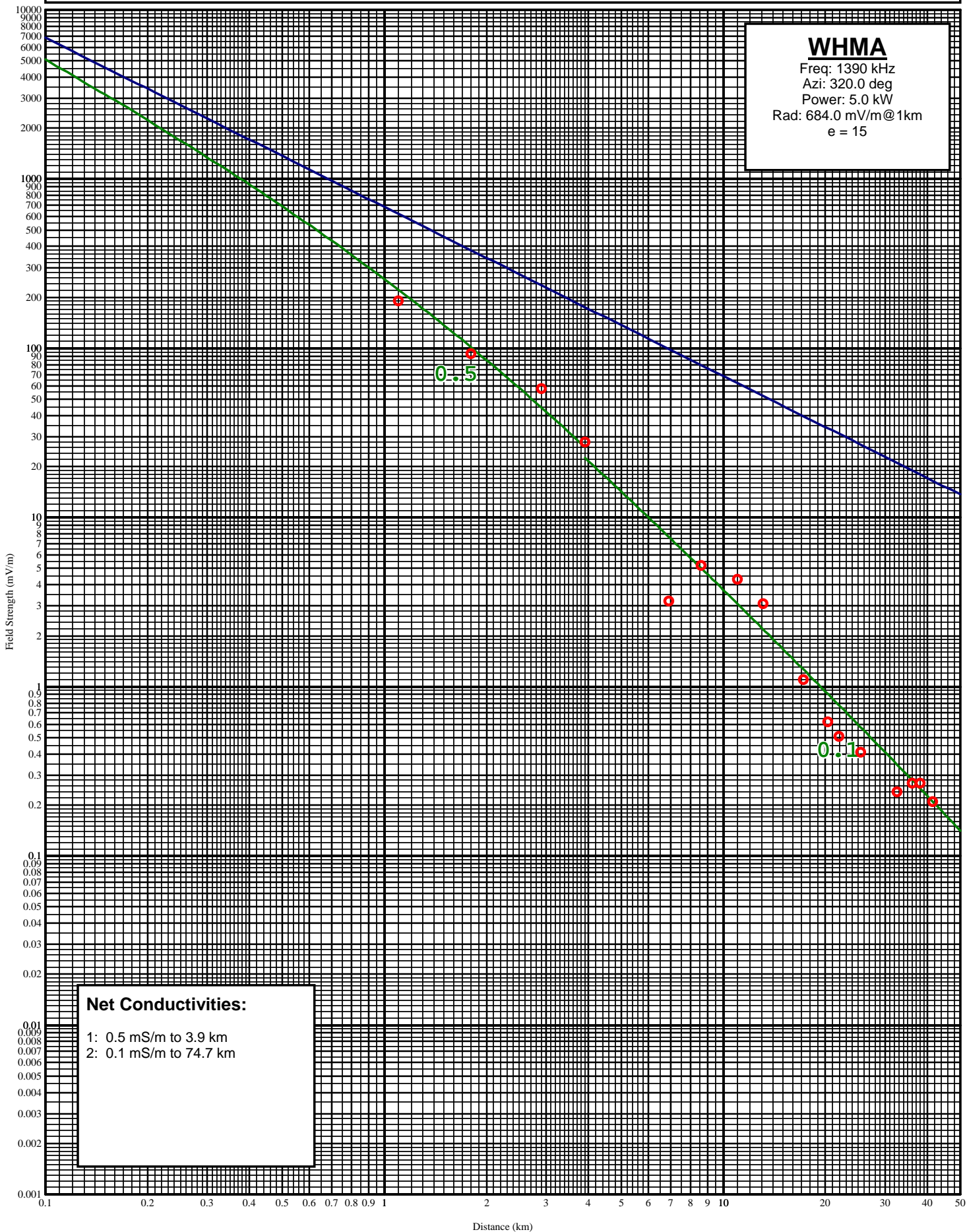


Field Strength Data For WHMA, Anniston, AL

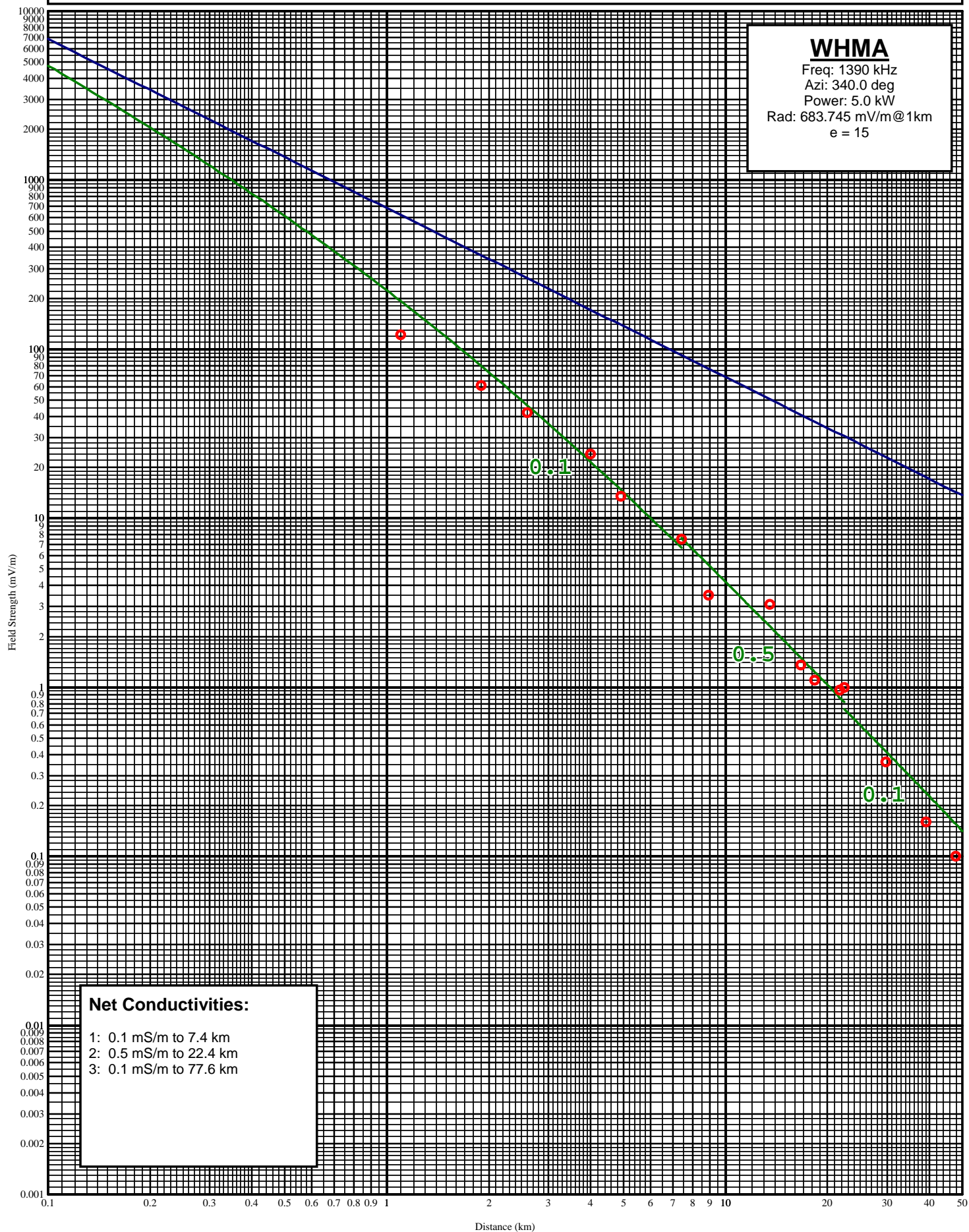
<u>320 degree Azimuth</u>							
<u>Latitude</u>	<u>Longitude</u>	<u>Distance from WHMA-AM (km)</u>	<u>Signal Strength (mV/m)</u>	<u>Date</u>	<u>Time</u>	<u>Temp. (°F)</u>	<u>Relative Humidity</u>
33-42-58.1	85-51-34.0	1.1	190	11/4/2017	1039	71	74
33-43-12.8	85-51-58.3	1.8	93	11/4/2017	1046	72	73
33-43-42.2	85-52-26.0	2.9	58	11/4/2017	1054	71	73
33-44-02.1	85-52-49.9	3.9	28	11/4/2017	1102	72	72
33-45-21.1	85-54-7.1	6.9	3.2	11/4/2017	1112	71	72
33-45-58.8	85-54-48.7	8.6	5.2	11/4/2017	1131	71	67
33-47-04.7	85-55-50.9	11.0	4.3	11/4/2017	1143	71	67
33-47-56.7	85-56-44.8	13.1	3.1	11/4/2017	1151	70	68
33-49-41.2	85-58-24.0	17.2	1.1	11/4/2017	1207	71	67
33-50-52.8	85-59-44.4	20.3	0.62	11/4/2017	1219	72	67
33-51-33.6	86-00-23.0	21.9	0.51	11/4/2017	1228	73	67
33-53-02.0	86-01-51.2	25.4	0.41	11/4/2017	1246	74	66
33-55-55.9	86-04-51.1	32.5	0.24	11/4/2017	1301	75	69
33-57-26.3	86-06-16.4	36.0	0.27	11/4/2017	1312	77	66
33-58-29.8	86-07-20.0	38.1	0.27	11/4/2017	1320	78	63
33-59-37.7	86-08-34.7	41.4	0.21	11/4/2017	1336	79	62
34-03-17.0	86-12-11.7	50.2	0.11	11/4/2017	1353	76	63
34-06-54.3	86-15-54.1	59.0	0.1	11/4/2017	1408	76	60
34-10-25.1	86-19-24.8	67.4	0.035	11/4/2017	1425	78	59
34-13-27.0	86-22-29.5	74.7	0.05	11/4/2017	1440	76	55
<u>340 degree Azimuth</u>							
<u>Latitude</u>	<u>Longitude</u>	<u>Distance from WHMA-AM (km)</u>	<u>Signal Strength (mV/m)</u>	<u>Date</u>	<u>Time</u>	<u>Temp. (°F)</u>	<u>Relative Humidity</u>
33-43-06.7	85-51-29.8	1.1	122	11/20/2017	1514	60	35
33-43-31.1	85-51-41.8	1.9	61	11/20/2017	1508	59	35
33-43-51.2	85-51-50.0	2.6	42	11/20/2017	1505	58	35
33-44-33.6	85-52-04.5	4.0	24	11/20/2017	1452	59	35
33-45-00.5	85-52-19.0	4.9	13.5	11/20/2017	1442	57	34
33-46-16.7	85-52-49.0	7.4	7.5	11/20/2017	1430	59	34
33-46-59.2	85-53-10.8	8.9	3.5	11/20/2017	1422	59	34
33-49-21.5	85-54-11.7	13.5	3.1	11/20/2017	1408	57	34
33-50-58.8	85-54-56.1	16.7	1.35	11/20/2017	1402	58	31
33-51-51.1	85-55-16.9	18.3	1.1	11/20/2017	1356	57	32
33-53-33.4	85-56-06.3	21.7	0.96	11/20/2017	1348	56	37
33-53-55.0	85-56-06.5	22.4	1	11/20/2017	1342	56	38
33-57-35.2	85-57-50.6	29.8	0.36	11/20/2017	1325	55	44
34-02-23.9	85-59-55.1	39.1	0.16	11/20/2017	1259	51	47
34-06-43.6	86-01-48.6	47.8	0.1	11/20/2017	1241	55	47
34-12-00.6	86-04-09.0	58.1	0.11	11/20/2017	1224	53	43
34-17-48.9	86-06-43.4	69.5	0.06	11/20/2017	1205	53	43
34-21-53.5	86-08-35.3	77.6	0.05	11/20/2017	1143	51	43

WHMA AM Measured Field Strength

Shown With Matching Conductivity Curves

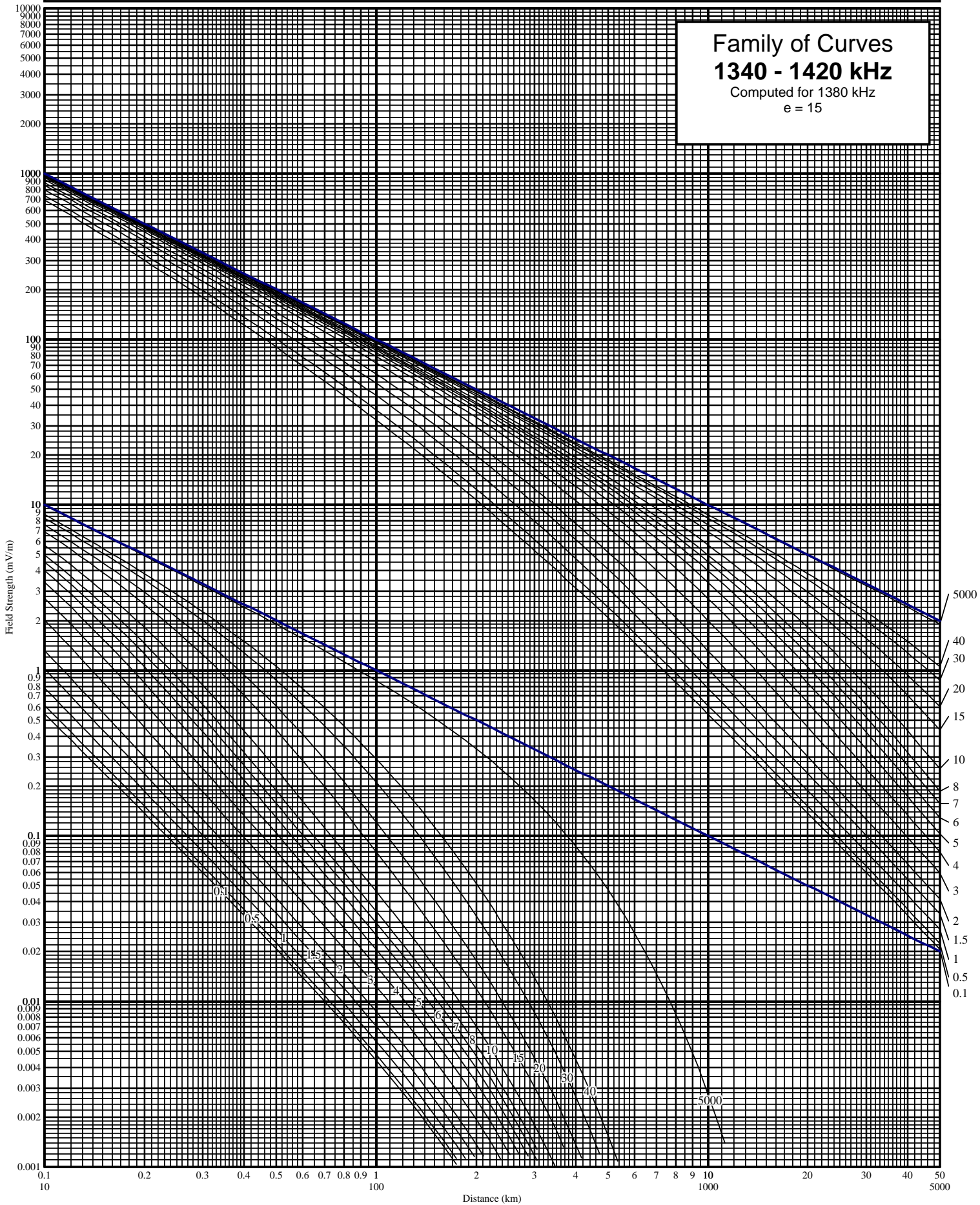


Shown With Matching Conductivity Curves



Groundwave Field Strength vs. Distance

Inverse Distance Field: 100.0 mV/m@1km



Calibration Plate for Potomac Instruments FIM-41 Meter
Used in the Instant Application
WWTM, 1390 kHz, Mooresville, AL



Calibration Plate for Potomac Instruments FIM-41 Meter
Used in the Instant Application
WWTM, 1390 kHz, Mooresville, AL



Distance to 1 V/m Contour - 140 meters
Population Inside 1 V/m Contour - 0

WWTM, 1390 kHz, Mooresville, AL Proposed Daytime Contours Map

Moores Mill
WWTM(AM)
Frequency: 1390 kHz
Latitude: 34-40-20 N
Longitude: 86-48-22 W
ERP: 0.25 kW
RMS at 1 km: 286.079 mV/m
of Towers: 1

WWTM(AM)

5 mV/m

2 mV/m

0.5 mV/m

Mooresville, AL
City Boundaries

Huntsville

Redstone Arsenal

Madison

Athens

Harvest

Elkmont

Meridianville

Hillsboro

Trinity

Decatur

Triana

Owens Crossroads

New

Priceville

Flint City

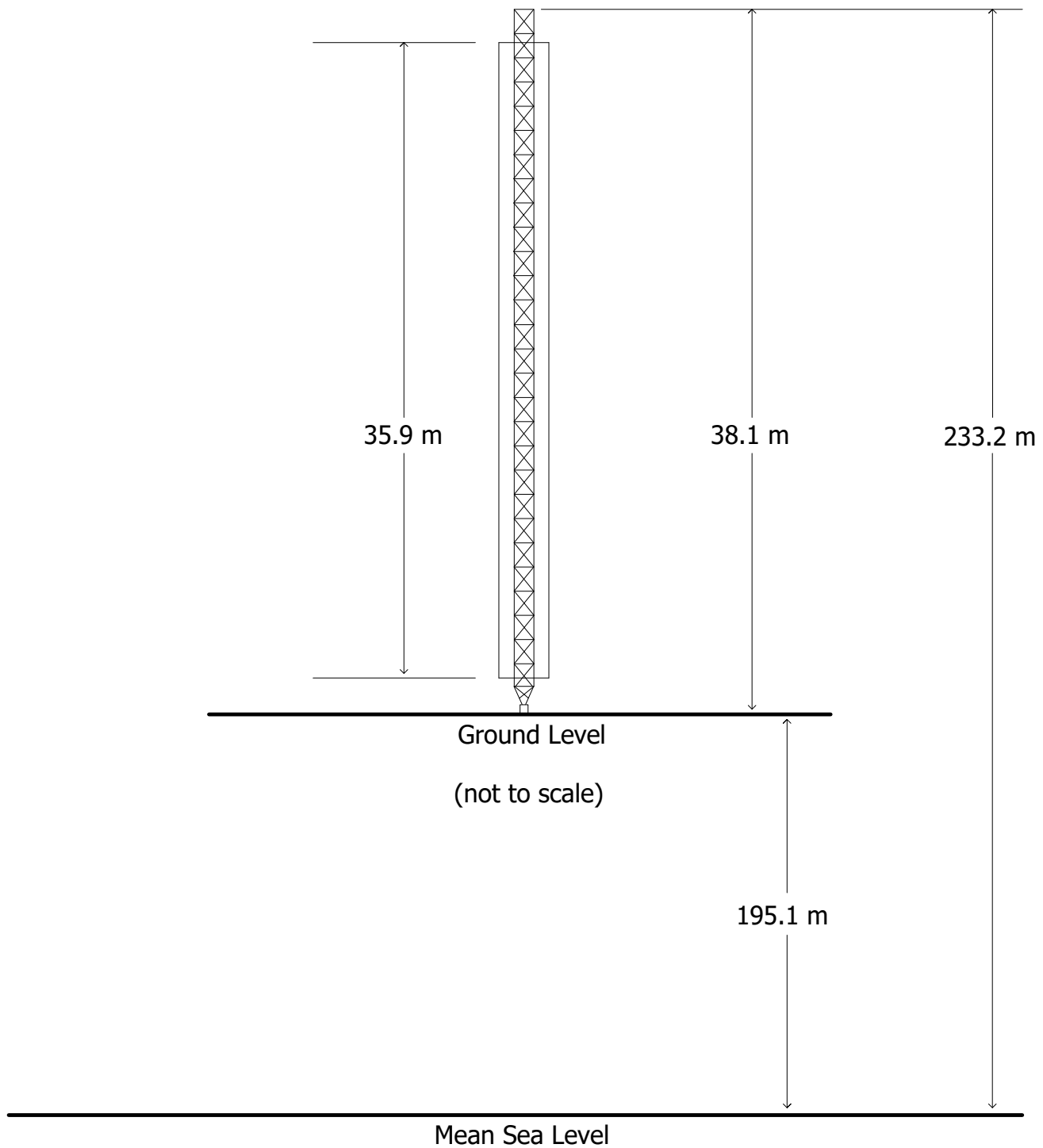
Somerville

Hartselle

0 5 10
kilometers

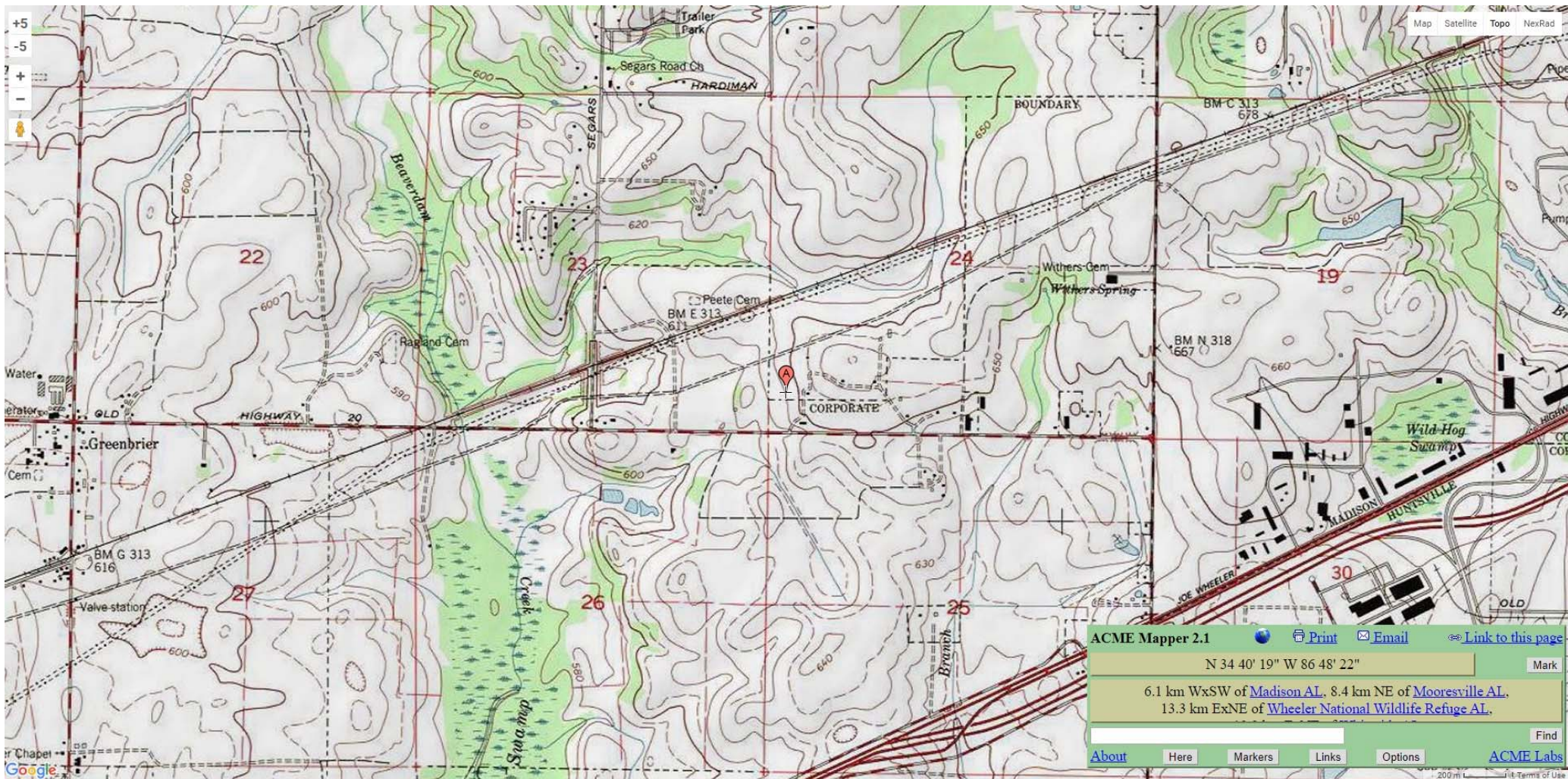
REYNOLDS
TECHNICAL
ASSOCIATES
BROADCAST TECHNICAL CONSULTANTS

WWTM, 1390 kHz, Mooresville, AL
Tower Vertical Sketch



NAD 27
Site Coordinates:
34° 40' 20"
86° 48' 22"

Portion of 7.5-Minute Topographic Map
For the Proposed Tower Site
WWTM, 1390 kHz, Mooresville, AL



Radius of Ground System = 54 meters
(120 equally spaced radials)

