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ADDITIONAL MEASUREMENT DATA

**WBGX 1570 KHZ
HARVEY, ILLINOIS**

Measurement data was taken in support WBGX, 1570 kHz, Harvey, Illinois, to insure protection of contours to Radio Station WFUR, 1570 kHz, Grand Raids, Michigan.

Measurements were performed on bearings on 46.5° T, 55° T, and 80° T from the WBGX site to determine the actual conductivities. Also, measurement of WFUR was performed on the 46.5° T to locate their .025 mV/m and .5 mV/m contours. Tabulation of the measurements and Ground Wave Plots are attached to show the measured values and analyzed conductivities. Measurements were performed by Mike Gallagher, Jr., of WBGX, with Potomac Instruments, FIM-21, Serial Number 852, calibrated July 19, 2002, by Potomac Instruments.

Measured data shows the .025 mV/m contour of WFUR to be located in Lake Michigan. The WFUR .5 mV/m contour is 205.5 kM from the WBGX Array. Using measured conductivities along this radial (6 to 17 kM, 8 17 kM to 172 kM, and 1.5 172 kM to 205.5 kM) gives an allowable field of 2054.0 mV/m to eliminate overlap.

TABULATION OF FIELD INTENSITY MEASUREMENTS

WBGX 1570 KHZ

HARVEY, ILLINOIS

RADIAL 46.5 DEGREES TRUE

Point <u>Number</u>	Distance <u>kM</u>	Date/Time <u>Local</u> 4/6/2004	Field <u>mV/m</u>
1	1.19	1040	170.0
2	2.01	1035	71.0
3	3.06	1025	55.0
4	3.87	1015	37.0
5	4.44	1009	26.0
6	5.09	1002	23.0
7	5.66	958	24.0
8	6.85	950	12.0
9	7.73	939	10.1
10	8.83	933	9.5
11	12.10	925	7.1
12	14.10	920	4.2
13	16.00	909	3.1
14	17.00	905	3.2

TABULATION OF FIELD INTENSITY MEASUREMENTS

WBGX 1570 KHZ

HARVEY, ILLINOIS

RADIAL 55 DEGREES TRUE

<u>Point Number</u>	<u>Distance kM</u>	<u>Date/Time Local 4/6/2005</u>	<u>Field mV/m</u>
1	1.15	1441	150.0
2	2.09	1448	73.0
3	2.90	1500	35.0
4	4.35	1509	23.0
5	5.18	1519	15.0
6	6.10	1526	17.0
7	7.13	1531	9.1
8	7.91	1538	6.2
9	11.20	1545	3.1
10	12.20	1554	5.3
11	14.10	1602	3.2
12	14.90	1607	2.3
13	16.60	1616	1.1
14	17.30	1624	0.95

TABULATION OF FIELD INTENSITY MEASUREMENTS

WBGX 1570 KHZ

HARVEY, ILLINOIS

RADIAL 80 DEGREES TRUE

<u>Point Number</u>	<u>Distance kM</u>	<u>Date/Time Local 4/6/2005</u>	<u>Field mV/m</u>
1	0.95	1220	65.00
2	1.96	1226	22.00
3	2.80	1234	30.00
4	3.97	1240	13.00
5	4.91	1250	10.00
6	6.09	1258	6.00
7	6.84	1303	5.7
8	7.69	1310	4.9
9	8.90	1318	4.5
10	10.80	1325	4.1
11	11.90	1335	3.9
12	13.00	1340	2.7
13	14.00	1349	2.2
14	15.10	1400	1.80
15	16.20	1409	0.91
16	17.10	1425	0.82

TABULATION OF FIELD INTENSITY MEASUREMENTS

WFUR 1570 KHZ

GRAND RAPIDS, MICHIGAN

RADIAL 46.5 DEGREES TRUE

<u>Point Number</u>	(From WBGX) Distance	Date/Time	Field
	<u>kM</u>	<u>Local</u>	<u>mV/m</u>
		4/8/2005	
1	16.00	1020	0.013
2	17.00	1032	0.011
		4/22/2005	
3	172.00	937	0.095
4	173.00	1000	0.098
5	174.00	1015	0.10
6	176.00	1033	0.14
7	178.00	1040	0.19
8	179.00	1049	0.21
9	180.00	1055	0.17
10	181.00	1100	0.16
11	182.00	1105	0.18
12	183.00	1109	0.15
13	184.00	1116	0.19
14	185.00	1125	0.20
15	188.00	1132	0.24
16	190.00	1140	0.25
17	192.00	1159	0.36
18	194.00	1206	0.29
19	200.00	1215	0.41
20	202.00	1220	0.49
21	205.00	1237	0.47
22	206.00	1244	0.52
23	207.00	1258	0.59

KILOMETERS FROM ANTENNA

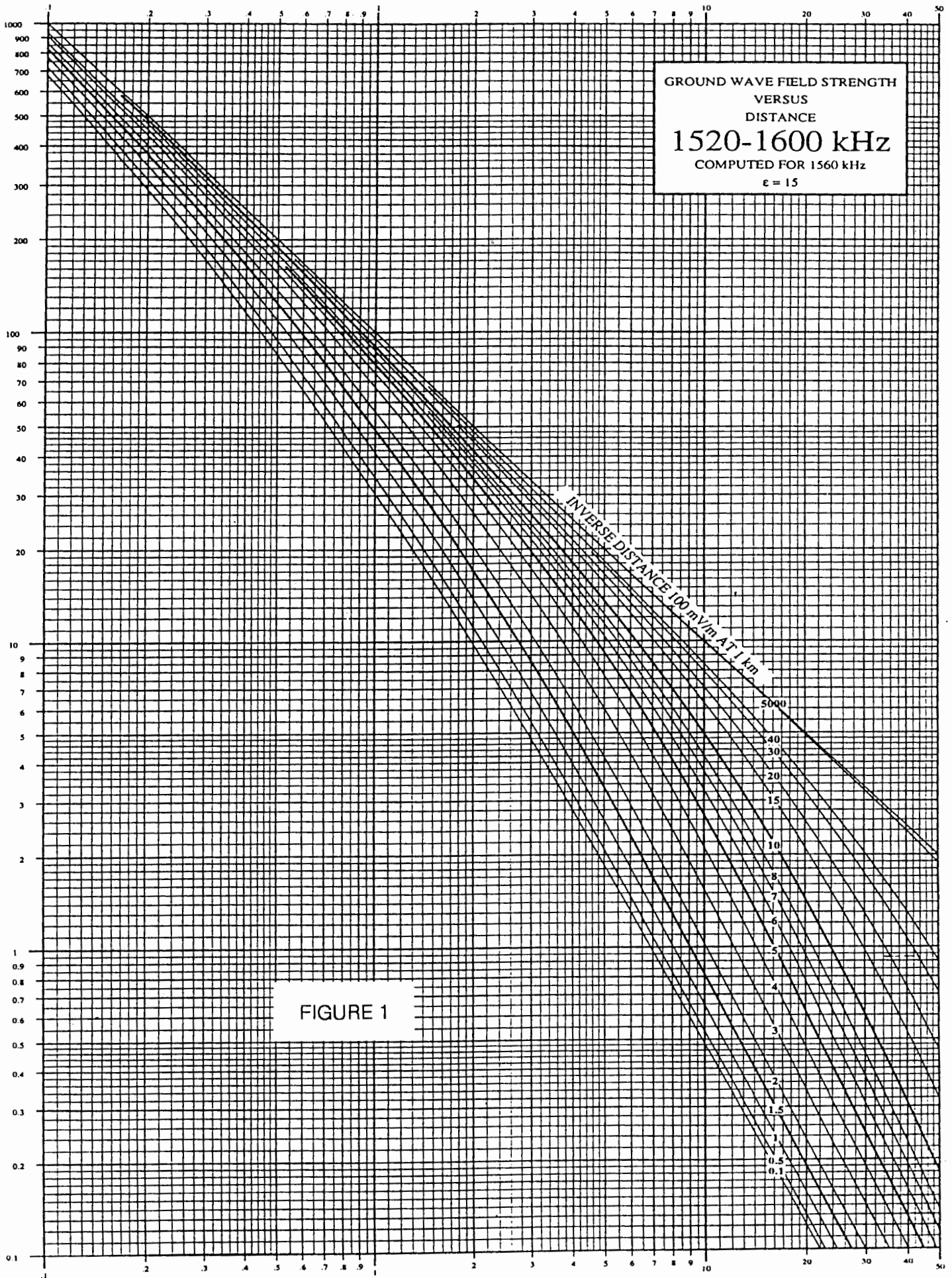
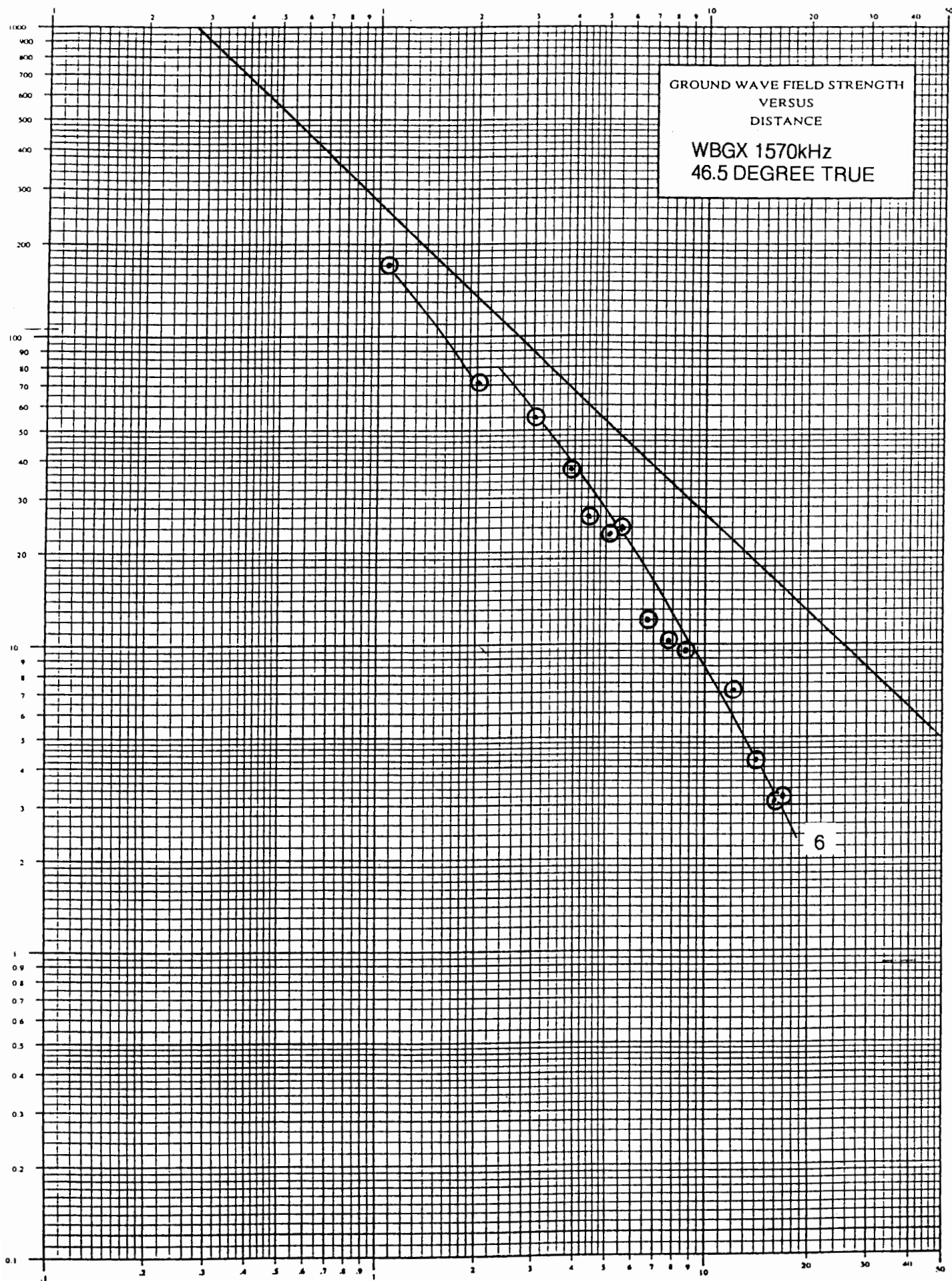
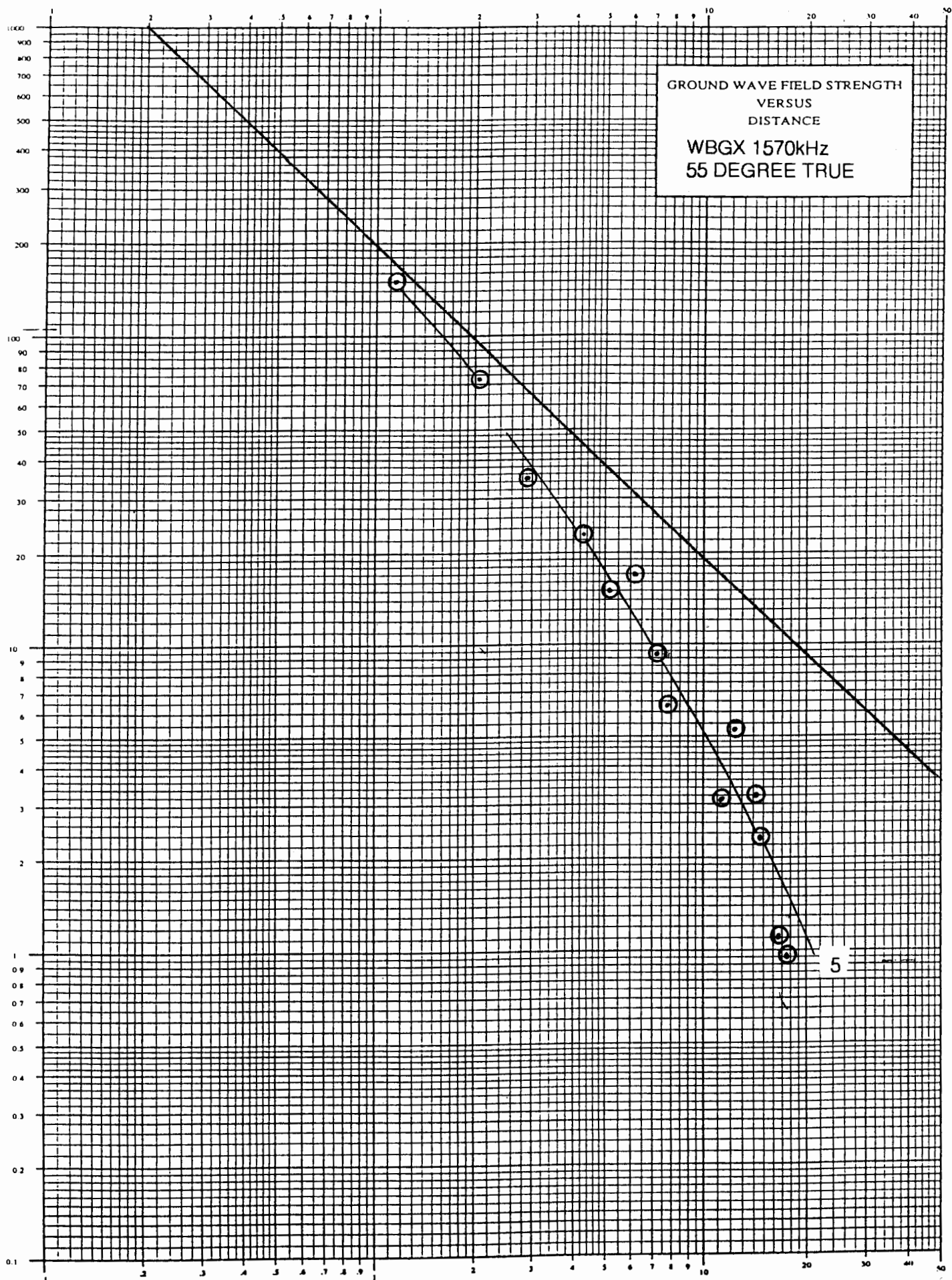


FIGURE 1

KILOMETERS FROM ANTENNA
GRAPH 19-A





GROUND WAVE FIELD STRENGTH
VERSUS
DISTANCE
WBGX 1570kHz
80 DEGREE TRUE

