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FCC MAIL ROOM

William F. Caton
Secretary
Federal Communications Commission
1919 M Street, N.W.
Washington, D.C. 20554

August 4, 1994

Dear Mr. Caton:

Transmitted herewith for filing are 1 original and 4 copies of a Petition for Rule-Making (to modify FCC rules section 73.182), prepared and filed on behalf of Milstar Broadcasting Corp.

A courtesy copy has been simultaneously sent to Jim Burtle of the FCC's AM Branch, with reference to Milstar's pending application for an AM construction permit (ARN-9000702AE).

If there are any problems or questions, please contact me; and, thanks.

Cordially,

Barry Skidelsky

BdS:hp
att.
cc: M. Wilson (Milstar)
J. Burtle (FCC/AM Branch)

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FCC MAIL ROOM

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

PETITION FOR RULE-MAKING

(to modify FCC rules section 73.182)

Milstar Broadcasting Corp. ("Milstar"), Commission licensee of WXCT (AM) in Hamden, Connecticut, by counsel, hereby submits a Petition For Rule-making, as follows.

As the Engineering Statement attached hereto and made a part hereof elaborates, Milstar proposes that the Commission modify section 73.182(q) of its rules, to allow class B standard broadcast stations, which operate on frequencies that are first adjacent to domestic class A facilities, to modestly increase nighttime service area.

Wherefore, adequate technological justification and strong public interest considerations warrant grant of this Petition.

Respectfully,

MILSTAR BROADCASTING CORP.

by Barry Skidelsky, Esq.
655 Madison Avenue
19th floor
New York, NY 10021

August 4, 1994

ENGINEERING STATEMENT
PREPARED ON BEHALF OF
MILSTAR BROADCASTING CORP.
IN SUPPORT OF A
PETITION FOR RULEMAKING

RECEIVED
AUG 1 1 1994
FCC MAIL ROOM

In the Matter of

Modification to the FCC Rules Section for Nighttime, Class B, Stations Operating First Adjacent To Class A, Domestic, Clear Channel Stations **73.182(q)**

SUMMARY

The following engineering statement has been prepared on behalf of Milstar Broadcasting Corp. ("Milstar"), licensee of AM station WXCT, Hamden, Connecticut. As a broadcast licensee, owner of a directional antenna facility on 1220 kHz and applicant for improved facilities, Milstar asks the Commission to modify its Rules to allow Class B standard broadcast stations, which operate on frequencies that are first adjacent to domestic Class A facilities to modestly increase nighttime service area.

In MM Docket No. 87-267, "Review of the Technical Assignment Criteria for the AM Broadcast Service", Section 73.182 of the FCC Rules was modified to require first adjacent channel Class B stations to protect the Class A station's 0.5 mV/m nighttime groundwave service contour with their 0.25 mV/m, 10%, skywave contour. Prior to MM Docket No. 87-267, Class B stations were required to protect the Class A station's 0.5 mV/m groundwave contour with their 2.5 mV/m, 10% skywave contour. Milstar believes that this ten fold increase in signal protection ratio places an unnecessarily rigorous burden on affected Class B stations, such that most are effectively precluded from any nighttime facility improvement. Milstar also believes that this level of protection is unnecessary given the level of grandfathered, first adjacent channel, skywave interference currently experienced by Class A stations.

Milstar herein offers a simple computational method which allows the clear channel stations to be protected to the level of interference existing on June ll, 1993, the effective date of MM Docket No. 87-267, while giving Milstar's WXCT and other Class B stations some latitude for facility improvement.

CLASS A NIGHTTIME SERVICE AREA

Milstar analyzed the level of grandfathered interference to WOGL, 1210 kHz, in Philadelphia, Pennsylvania resulting from all authorized stations operating on 1220 kHz during nighttime hours, including without limit, Milstar's WXCT in Hamden, Connecticut. The analysis demonstrated that WOGL experiences a significant level of grandfathered interference inside its 0.5 mV/m groundwave contour. In fact, the level of interference is so great that the Section 73.182(q) requirement that the clear channel 0.5 mV/m groundwave contour be protected from the Class B 0.25 mV/m skywave contour is almost meaningless as described below.

Figure 1 attached is a plot of the WOGL 3.0 mV/m, 2.5 mV/m, 2.0 mV/m, 1.5 mV/m, 1.0 mV/m and 0.5 mV/m groundwave service contours based on M3 conductivity data and the notified WOGL transmitting parameters. Table 1 is a list of coordinate pairs, based on a 15′ by 15′ grid size, that are located inside the WOGL 0.5 mV/m groundwave service contour. There are 56 study points in the Table which represent the universe of study points within the WOGL 0.5 mV/m groundwave contour. Table 2 is an RSS calculation of all authorized signals at each one of the 56 coordinate pairs. This table has been edited for the purpose of brevity. Table 3 is a tabulation of the 50%, 25% and 0% RSS values for the 56 study points. All calculations were made using Formula 2 in 73.190 and the notified records for each station studied. Table 4 is a tabulation of radiation limits for the proposed WXCT site to the 56 study points based on a 25% RSS value allowable to each study point.

WOGL, like all Class A stations, experiences grandfathered interference within its 0.5 mV/m groundwave contour from licensed and authorized stations on co and adjacent channels. The greatest single interfering signal to WOGL is Class B station WKNR, 1220 kHz, in Cleveland, Ohio which operates unlimited hours with a DA-1 pattern and a power of 50 kW. The grandfathered RSS night limit within the

WOGL 0.5 mV/m groundwave contour runs between 3.28 mV/m and 4.48 mV/m. This clearly makes protection to the 0.5 mV/m contour unnecessary, as that contour value is unable to provide service to the public due to the existing level of grandfathered interference.

RULE CHANGE PROPOSED

Milstar realizes that, in some limited cases, maintenance of the existing Rule may be appropriate. One example might be domestic, clear channels located in Alaska where the level of grandfathered adjacent channel skywave interference may be comparatively low. However, for most domestic stations, the Rule should be modified to reflect existing levels of interference. Milstar believes that the following change would preserve interference at existing levels while providing some latitude for Class B station improvement.

Proposal,	Add a Note 5 to 73.182(q), row 1, column 6 and to row 2, column 6, stating, in substance similar to the following:
"Note	5 During nighttime hours, the first adjacent channel protection requirement to Class A domestic stations may be computed by determining the RSS night limit to a grid of study points within the clear channel station's 0.5 mV/m groundwave service contour. The grid will have a uniform spacing of 15′ by 15′ in latitude and longitude".

CONCLUSION

Milstar believes that the proposed modification to Section 73.182(q) of the FCC Rules will preserve the underlying integrity of the allocation arrangement between Class B and Class A stations during nighttime hours, while affording Class B stations some latitude to improve their nighttime facilities.

The foregoing was prepared on behalf of **Milstar Broadcasting Corp.** by Clarence M. Beverage of *Communications Technologies, Inc.*, Marlton, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. The statements herein are true and correct of his own knowledge, except such statements made on information and belief, and as to these statements he believes them to be true and correct.

By _____

Clarence M. Beverage
for Communications Technologies, Inc.
Marlton, New Jersey

SUBSCRIBED AND SWORN TO before me,

this 8 th day of August, 1994,

Esther G. Sperbeck, NOTARY PUBLIC

ESTHER G. SPERBECK
NOTARY PUBLIC OF NEW JERSEY
MY COMMISSION EXPIRES OCT 15, 1997

TABLE 1

COORDINATE PAIRS (15' X 15') GRID FOR POINTS

LOCATED INSIDE THE WOGL 0.5 mVm GROUNDWAVE SERVICE CONTOUR

WOGL 1210 kHz 50 kW ND-U

PHILADELPHIA, PENNSYLVANIA

APRIL 1994

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39,  15,  00,  76,  15,  00,1210,  -1.000,'WOGL 1 ','US','PA','A '
39,  30,  00,  76,  15,  00,1210,  -1.000,'WOGL 2 ','US','PA','A '
39,  30,  00,  76,  00,  00,1210,  -1.000,'WOGL 3 ','US','PA','A '
39,  45,  00,  76,  00,  00,1210,  -1.000,'WOGL 4 ','US','PA','A '
40,  00,  00,  76,  00,  00,1210,  -1.000,'WOGL 5 ','US','PA','A '
40,  15,  00,  76,  00,  00,1210,  -1.000,'WOGL 6 ','US','PA','A '
40,  30,  00,  76,  00,  00,1210,  -1.000,'WOGL 7 ','US','PA','A '
40,  00,  00,  76,  15,  00,1210,  -1.000,'WOGL 8 ','US','PA','A '
39,  15,  00,  75,  45,  00,1210,  -1.000,'WOGL 9 ','US','PA','A '
39,  30,  00,  75,  45,  00,1210,  -1.000,'WOGL10 ','US','PA','A '
39,  45,  00,  75,  45,  00,1210,  -1.000,'WOGL11 ','US','PA','A '
40,  00,  00,  75,  45,  00,1210,  -1.000,'WOGL12 ','US','PA','A '
40,  15,  00,  75,  45,  00,1210,  -1.000,'WOGL13 ','US','PA','A '
40,  30,  00,  75,  45,  00,1210,  -1.000,'WOGL14 ','US','PA','A '
40,  45,  00,  75,  45,  00,1210,  -1.000,'WOGL15 ','US','PA','A '
39,  00,  00,  75,  30,  00,1210,  -1.000,'WOGL16 ','US','PA','A '
39,  15,  00,  75,  30,  00,1210,  -1.000,'WOGL17 ','US','PA','A '
39,  30,  00,  75,  30,  00,1210,  -1.000,'WOGL18 ','US','PA','A '
39,  45,  00,  75,  30,  00,1210,  -1.000,'WOGL19 ','US','PA','A '
40,  00,  00,  75,  30,  00,1210,  -1.000,'WOGL20 ','US','PA','A '
40,  15,  00,  75,  30,  00,1210,  -1.000,'WOGL21 ','US','PA','A '
40,  30,  00,  75,  30,  00,1210,  -1.000,'WOGL22 ','US','PA','A '
40,  45,  00,  75,  30,  00,1210,  -1.000,'WOGL23 ','US','PA','A '
39,  30,  00,  75,  15,  00,1210,  -1.000,'WOGL24 ','US','PA','A '
39,  45,  00,  75,  15,  00,1210,  -1.000,'WOGL25 ','US','PA','A '
40,  00,   0,  75,  15,   0,1210,  -1.000,'WOGL26 ','US','PA','A '
40,  15,   0,  75,  15,   0,1210,  -1.000,'WOGL27 ','US','PA','A '
40,  30,   0,  75,  15,   0,1210,  -1.000,'WOGL28 ','US','PA','A '
40,  45,   0,  75,  15,   0,1210,  -1.000,'WOGL29 ','US','PA','A '
39,  15,   0,  75,  00,   0,1210,  -1.000,'WOGL30 ','US','PA','A '
39,  30,   0,  75,  00,   0,1210,  -1.000,'WOGL31 ','US','PA','A '
39,  45,   0,  75,  00,   0,1210,  -1.000,'WOGL32 ','US','PA','A '
40,  00,   0,  75,  00,  00,1210,  -1.000,'WOGL33 ','US','PA','A '
40,  15,  00,  75,  00,  00,1210,  -1.000,'WOGL34 ','US','PA','A '
40,  30,  00,  75,  00,  00,1210,  -1.000,'WOGL35 ','US','PA','A '
40,  45,  00,  75,  00,  00,1210,  -1.000,'WOGL36 ','US','PA','A '
39,  15,  00,  74,  45,  00,1210,  -1.000,'WOGL37 ','US','PA','A '
39,  30,  00,  74,  45,  00,1210,  -1.000,'WOGL38 ','US','PA','A '
39,  45,  00,  74,  45,  00,1210,  -1.000,'WOGL39 ','US','PA','A '
40,  00,  00,  74,  45,  00,1210,  -1.000,'WOGL40 ','US','PA','A '
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TABLE 1
~ 2 ~

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40,  15,  00,  74,  45,  00,1210,  -1.000,'WOGL41 ','US','PA','A '
40,  30,  00,  74,  45,  00,1210,  -1.000,'WOGL42 ','US','PA','A '
40,  45,  00,  74,  45,  00,1210,  -1.000,'WOGL43 ','US','PA','A '
39,  30,  00,  74,  30,  00,1210,  -1.000,'WOGL44 ','US','PA','A '
39,  45,  00,  74,  30,  00,1210,  -1.000,'WOGL45 ','US','PA','A '
40,  00,  00,  74,  30,  00,1210,  -1.000,'WOGL46 ','US','PA','A '
40,  15,  00,  74,  30,  00,1210,  -1.000,'WOGL47 ','US','PA','A '
40,  30,  00,  74,  30,  00,1210,  -1.000,'WOGL48 ','US','PA','A '
40,  45,  00,  74,  30,  00,1210,  -1.000,'WOGL49 ','US','PA','A '
39,  45,  00,  74,  15,  00,1210,  -1.000,'WOGL50 ','US','PA','A '
40,  00,  00,  74,  15,  00,1210,  -1.000,'WOGL51 ','US','PA','A '
40,  15,  00,  74,  15,  00,1210,  -1.000,'WOGL52 ','US','PA','A '
40,  30,  00,  74,  15,  00,1210,  -1.000,'WOGL53 ','US','PA','A '
40,  45,  00,  74,  15,   0,1210,  -1.000,'WOGL54 ','US','PA','A '
40,  15,  00,  74,  00,  00,1210,  -1.000,'WOGL55 ','US','PA','A '
40,  30,  00,  74,  00,  00,1210,  -1.000,'WOGL56 ','US','PA','A '
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TABLE 2

TABULATION OF RSS LIMITS TO 56 STUDY POINTS WITHIN

THE WOGL 1210 kHz 50 kW ND - U

0.5 mV/m GROUNDWAVE CONTOUR

PHILADELPHIA, PENNSYLVANIA

APRIL 1994

Point: WOGL 1 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	514.8	114.6	23.7	1451.6	105.335	3.0582	3.0582
WAGE-CP*	119.3	82.8	50.1	250.9	384.862	1.9314	3.6170
WHOY	2552.4	339.9	.0	562.2	9.622	1.0820	3.7754
CHSC *	490.9	148.6	15.2	323.7	109.884	.7114	
WMRE *	222.2	168.9	32.4	123.7	268.009	.6631	
WOAI *	2272.2	55.7	.0	2976.2	10.183	.6062	
WGNY *	312.0	216.2	36.7	155.3	194.734	.6047	

* - indicates an adjacent channel station.

Point: WOGL 2 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	502.3	111.8	24.3	1253.7	108.651	2.7243	2.7243
WAGE-CP*	125.5	70.1	48.6	263.4	377.381	1.9879	3.3725
WHOY	2577.7	340.2	.0	566.2	9.416	1.0663	3.5371
CHSC *	466.9	146.9	16.1	313.7	117.296	.7359	
WMRE *	195.0	167.3	36.0	118.9	295.110	.7019	
WGNY *	289.6	219.3	38.9	151.9	209.917	.6378	
WOAI *	2282.6	55.0	.0	2976.2	10.041	.5977	
CKSM *	837.5	201.0	7.9	594.3	43.884	.5216	

TABLE 2
~ 2 ~

Point: WOGL 3 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	521.8	110.8	23.4	1201.8	103.021	2.4762	2.4762
WAGE-CP*	145.9	72.8	44.3	294.0	353.333	2.0779	3.2325
WHOY	2568.8	340.7	.0	572.9	9.479	1.0860	3.4101
WGNY *	276.9	215.8	40.2	174.0	219.449	.7637	
WMRE *	200.6	161.3	35.2	127.6	289.166	.7380	
CHSC *	478.3	144.7	15.7	308.0	113.469	.6990	
WOAI *	2302.5	55.2	.0	2976.2	9.861	.5870	

Point: WOGL 4 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	510.9	107.9	23.9	1127.8	105.765	2.3857	2.3857
WAGE-CP*	156.0	63.0	42.3	307.6	341.332	2.1002	3.1784
WHOY	2594.2	340.9	.0	576.7	9.275	1.0698	3.3536
WGNY *	254.5	219.4	42.6	170.4	237.139	.8081	
WMRE *	174.4	158.5	39.1	121.8	317.010	.7725	
CHSC *	455.3	142.8	16.5	288.1	120.907	.6967	
WNSS *	378.4	178.3	20.0	194.3	152.965	.5944	
WOAI *	2313.1	54.6	.0	2976.2	9.722	.5787	

Point: WOGL 5 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	501.3	105.0	14.9	1078.3	108.236	2.3342	2.3342
WAGE-CP*	170.0	54.5	39.9	323.4	324.950	2.1018	3.1411
WHOY	2619.7	341.2	.0	580.4	9.076	1.0536	3.3131
WGNY *	233.3	223.6	45.2	167.5	255.475	.8561	3.4219
WMRE *	148.8	154.6	43.7	114.2	345.948	.7899	
CHSC *	432.8	140.6	17.4	262.2	128.867	.6759	
WNSS *	350.6	178.2	21.5	192.9	167.057	.6446	
CKSM *	778.0	200.8	8.7	595.6	49.219	.5863	
WOAI *	2323.9	53.9	.0	2976.2	9.581	.5703	

TABLE 2
~ 3 ~

Point: WOGL 6 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	493.1	101.9	15.2	1077.4	110.373	2.3784	2.3784
WAGE-CP*	187.1	47.5	37.1	338.8	305.656	2.0710	3.1537
WHOY	2645.1	341.4	.0	584.1	8.881	1.0375	3.3200
WGNY *	213.6	228.6	47.7	165.2	273.893	.9047	3.4411
WMRE *	124.2	149.2	48.9	104.2	374.568	.7809	
WNSS *	322.8	178.0	23.3	191.4	183.000	.7006	
CHSC *	411.1	138.3	18.4	230.3	137.339	.6325	
CKSM *	751.7	201.5	9.1	583.8	51.865	.6056	
WOAI *	2335.0	53.3	.0	2976.2	9.440	.5619	

Point: WOGL 7 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	486.3	98.8	15.4	1217.4	112.119	2.7299	2.7299
WAGE-CP*	206.6	41.7	34.4	353.3	284.846	2.0127	3.3916
WHOY	2670.7	341.7	.0	587.7	8.690	1.0215	3.5421
WGNY *	195.8	234.6	50.2	163.7	291.571	.9549	3.6686
WNSS *	295.0	177.8	25.3	189.6	201.045	.7623	
WMRE *	101.1	141.2	54.7	92.1	400.761	.7383	
CKSM *	725.5	202.2	9.6	570.9	54.726	.6248	
CHSC *	390.0	135.7	19.4	193.0	146.286	.5646	
WOAI *	2346.4	52.7	.0	2976.2	9.298	.5534	

Point: WOGL 8 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	481.2	105.8	15.6	1083.6	114.535	2.4822	2.4822
WAGE-CP*	152.9	50.0	42.9	301.3	344.527	2.0760	3.2359
WHOY	2628.3	340.7	.0	574.0	9.018	1.0352	3.3974
CHSC *	420.3	142.9	18.0	277.0	133.933	.7420	
WMRE *	141.2	162.5	45.2	103.8	354.969	.7371	
WGNY *	248.1	227.2	43.4	147.4	242.187	.7141	
WNSS *	350.5	181.6	21.5	179.7	167.094	.6005	
WOAI *	2304.4	53.7	.0	2976.2	9.753	.5805	

TABLE 2

Point: WOGL 9 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	553.1	112.5	22.1	1272.8	95.115	2.4212	2.4212
WAGE-CP*	162.2	84.4	41.2	312.1	334.774	2.0894	3.1981
WHOY	2534.7	340.9	.0	575.7	9.751	1.1228	3.3895
WGNY *	289.5	209.2	38.9	203.7	210.414	.8572	3.4962
WMRE *	234.0	158.4	31.1	139.8	256.837	.7180	
CHSC *	513.3	144.4	14.5	315.6	103.177	.6512	
WSML *	476.6	42.2	15.7	263.0	123.033	.6472	
WOAI *	2312.2	56.1	.0	2976.2	9.820	.5845	

Point: WOGL10 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	541.3	109.8	22.6	1164.0	97.758	2.2758	2.2758
WAGE-CP*	166.6	74.9	40.4	320.1	329.396	2.1087	3.1026
WHOY	2560.2	341.1	.0	579.5	9.541	1.1058	3.2937
WGNY *	265.3	212.0	41.4	198.9	228.636	.9095	3.4170
WMRE *	208.3	155.7	34.2	136.3	281.288	.7667	
CHSC *	490.3	142.6	15.3	297.3	109.619	.6518	
WNSS *	407.2	175.4	18.5	207.3	139.993	.5804	
WOAI *	2322.4	55.4	.0	2976.2	9.685	.5765	

Point: WOGL11 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	530.8	107.1	23.0	1104.0	100.201	2.2124	2.2124
WAGE-CP*	175.4	66.0	39.0	330.6	319.184	2.1105	3.0576
WHOY	2585.7	341.4	.0	583.3	9.335	1.0889	3.2457
WGNY *	241.9	215.4	44.1	194.3	248.133	.9641	3.3859
WMRE *	183.2	152.2	37.7	131.4	307.329	.8079	
CHSC *	467.9	140.6	16.0	273.4	116.505	.6370	
WNSS *	379.5	175.1	19.9	207.2	152.370	.6314	
CKSM *	798.0	198.7	8.4	628.5	47.413	.5960	
WOAI *	2332.8	54.8	.0	2976.2	9.550	.5684	

TABLE 2

Point: WOGL12 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	521.5	104.2	14.3	1075.4	102.391	2.2023	2.2023
WAGE-CP*	188.0	58.2	37.0	342.6	305.109	2.0908	3.0367
WHOY	2611.2	341.6	.0	586.9	9.133	1.0721	3.2204
WGNY *	219.5	219.5	46.9	189.7	268.555	1.0188	3.3777
WMRE *	158.9	147.6	41.8	125.0	334.167	.8356	
WNSS *	351.8	174.7	21.5	206.5	166.338	.6868	
CKSM *	771.4	199.3	8.8	618.9	49.936	.6181	
CHSC *	446.0	138.5	16.9	243.9	123.831	.6041	
WOAI *	2343.5	54.2	.0	2976.2	9.413	.5603	

Point: WOGL13 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	513.5	101.3	14.5	1103.5	104.277	2.3015	2.3015
WAGE-CP*	203.5	51.4	34.8	355.2	288.344	2.0484	3.0810
WGNY *	198.5	224.5	49.8	185.4	289.295	1.0725	3.2623
WHOY	2636.8	341.9	.0	590.5	8.936	1.0554	3.4288
WMRE *	136.1	141.5	46.3	116.9	360.478	.8425	
WNSS *	324.2	174.2	23.2	205.6	182.125	.7489	
CKSM *	744.9	199.9	9.3	608.3	52.665	.6407	
WOAI *	2354.5	53.5	.0	2976.2	9.276	.5521	

Point: WOGL14 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	507.0	98.2	14.7	1259.3	105.812	2.6651	2.6651
WAGE-CP*	221.5	45.7	32.5	366.6	270.043	1.9798	3.3199
WGNY *	179.3	230.6	52.7	181.1	309.428	1.1204	3.5039
WHOY	2662.4	342.1	.0	594.1	8.743	1.0388	3.6546
WMRE *	115.4	133.0	51.0	107.2	384.354	.8239	
WNSS *	296.5	173.7	25.2	204.5	199.971	.8179	
CKSM *	718.5	200.6	9.7	596.7	55.620	.6638	
CJSS *	515.4	189.3	14.4	296.6	97.035	.5756	
WOAI *	2365.7	52.9	.0	2976.2	9.137	.5439	

TABLE 2

Point: WOGL15 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	501.9	95.1	14.9	1403.7	106.950	3.0025	3.0025
WAGE-CP*	241.3	40.9	30.3	377.2	251.185	1.8949	3.5504
WGNY *	162.6	238.1	55.4	177.4	327.699	1.1630	3.7360
WHOY	2688.1	342.3	.0	597.5	8.554	1.0223	3.8734
WNSS *	268.9	173.1	27.5	202.5	220.118	.8913	
WMRE *	98.3	121.2	55.4	97.3	403.439	.7847	
CKSM *	692.2	201.3	10.2	583.8	58.825	.6868	
CJSS *	488.0	189.8	15.3	292.0	104.523	.6103	
WBZY *	391.1	91.6	19.3	197.0	149.108	.5873	
WOAI *	2377.2	52.3	.0	2976.2	8.998	.5356	

Point: WOGL16 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	585.0	114.0	20.9	1379.4	87.960	2.4266	2.4266
WAGE-CP*	184.0	93.6	37.6	330.9	310.728	2.0567	3.1810
WHOY	2500.6	341.1	.0	578.7	10.032	1.1612	3.3863
WGNY *	305.5	203.1	37.3	238.4	199.504	.9512	3.5173
WSML *	473.2	46.5	15.8	301.7	124.394	.7507	
WMRE *	267.9	156.2	27.6	149.5	228.069	.6819	
CHSC *	548.4	144.1	13.5	321.5	94.186	.6056	
WOAI *	2322.6	57.0	.0	2976.2	9.774	.5818	

Point: WOGL17 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	572.4	111.5	21.4	1215.1	90.473	2.1987	2.1987
WAGE-CP*	183.7	84.9	37.7	335.2	310.743	2.0834	3.0290
WHOY	2526.1	341.3	.0	582.5	9.814	1.1434	3.2376
WGNY *	280.0	205.3	39.8	233.0	217.524	1.0136	3.3926
WMRE *	242.5	153.7	30.1	147.7	249.125	.7360	
WSML *	491.9	44.0	15.2	281.3	118.009	.6639	
CHSC *	525.4	142.4	14.1	304.4	99.794	.6076	
CKSM *	845.9	196.2	7.7	664.2	43.402	.5765	
WOAI *	2332.3	56.3	.0	2976.2	9.644	.5740	

TABLE 2

Point: WOGL18 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	561.0	109.0	21.8	1137.1	92.839	2.1114	2.1114
WAGE-CP*	187.5	76.4	37.1	341.7	306.228	2.0929	2.9729
WHOY	2551.7	341.6	.0	586.3	9.601	1.1258	3.1789
WGNY *	254.9	207.9	42.6	227.0	237.242	1.0773	3.3565
WMRE *	217.8	150.5	33.0	144.8	271.848	.7875	
WNSS *	409.4	172.4	18.4	219.7	139.039	.6109	
CKSM *	819.0	196.7	8.1	657.0	45.623	.5995	
CHSC *	503.0	140.6	14.8	282.6	105.777	.5978	
WSML *	511.4	41.8	14.6	262.0	111.807	.5858	
WOAI *	2342.3	55.6	.0	2976.2	9.513	.5663	

Point: WOGL19 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WAGE-CP*	195.3	68.4	35.9	350.2	297.589	2.0842	2.0842
WKNR *	550.8	106.3	13.4	1094.3	95.016	2.0795	2.9442
WGNY *	230.5	211.0	45.5	221.0	258.534	1.1427	3.1581
WHOY	2577.3	341.8	.0	589.9	9.393	1.1082	3.3469
WMRE *	193.8	146.6	36.2	141.1	295.829	.8345	
WNSS *	381.9	171.9	19.8	220.2	151.226	.6659	
CKSM *	792.1	197.2	8.5	649.3	48.020	.6236	
CHSC *	481.1	138.6	15.6	255.4	112.138	.5728	
WOAI *	2352.6	55.0	.0	2976.2	9.381	.5584	

Point: WOGL20 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	541.8	103.5	13.7	1077.6	96.961	2.0898	2.0898
WAGE-CP*	206.6	61.2	34.4	359.7	285.572	2.0544	2.9305
WGNY *	206.9	214.9	48.6	214.2	281.064	1.2042	3.1683
WHOY	2603.0	342.1	.0	593.5	9.189	1.0908	3.3508
WMRE *	171.1	141.6	39.7	136.0	320.304	.8712	3.4622
WNSS *	354.3	171.2	21.3	220.1	164.955	.7262	
CKSM *	765.4	197.8	8.9	640.8	50.613	.6486	
WOAI *	2363.1	54.4	.0	2976.2	9.248	.5505	

TABLE 2

Point: WOGL21 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	534.0	100.7	13.9	1136.6	98.630	2.2420	2.2420
WAGE-CP*	220.8	54.8	32.6	369.3	271.105	2.0024	3.0060
WGNY *	184.5	219.7	51.9	206.8	304.193	1.2583	3.2588
WHOY	2628.7	342.3	.0	597.0	8.990	1.0734	3.4310
WMRE *	150.0	135.1	43.5	129.5	344.057	.8914	3.5449
WNSS *	326.9	170.5	23.0	219.9	180.441	.7937	
CKSM *	738.7	198.4	9.4	631.5	53.421	.6747	
CJSS *	540.3	186.6	13.7	308.9	90.953	.5619	
WOAI *	2373.9	53.7	.0	2976.2	9.114	.5425	

Point: WOGL22 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	527.6	97.8	14.1	1297.7	99.981	2.5950	2.5950
WAGE-CP*	237.4	49.2	30.7	378.9	255.124	1.9331	3.2359
WGNY *	163.8	225.8	55.2	198.8	326.895	1.3000	3.4872
WHOY	2654.4	342.5	.0	600.5	8.795	1.0562	3.6437
WMRE *	131.5	126.6	47.3	122.2	365.403	.8933	
WNSS *	299.4	169.7	25.0	219.6	197.906	.8693	
CKSM *	712.1	199.0	9.8	621.2	56.468	.7016	
CJSS *	512.6	186.9	14.5	305.3	97.787	.5971	
WOAI *	2385.0	53.1	.0	2976.2	8.980	.5345	

Point: WOGL23 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	522.7	94.8	14.2	1433.5	100.979	2.8950	2.8950
WAGE-CP*	256.0	44.4	28.8	387.3	238.460	1.8470	3.4340
WGNY *	145.4	233.6	58.3	190.4	347.721	1.3242	3.6805
WHOY	2680.2	342.8	.0	603.8	8.604	1.0391	3.8244
WNSS *	272.1	168.7	27.3	218.3	217.570	.9500	
WMRE *	116.7	115.7	50.7	115.1	382.323	.8801	
CKSM *	685.6	199.7	10.3	609.6	59.778	.7288	
CJSS *	485.0	187.3	15.4	301.0	105.406	.6346	
WBZY *	412.1	91.3	18.3	201.1	139.658	.5616	
CFGO *	504.4	177.6	14.8	271.9	99.323	.5401	
WOAI *	2396.3	52.5	.0	2976.2	8.845	.5265	

TABLE 2

Point: WOGL24 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WAGE-CP*	208.6	77.7	34.1	360.0	284.247	2.0468	2.0468
WKNR *	580.8	108.1	21.0	1117.7	88.238	1.9725	2.8425
WGNY *	245.9	203.4	43.6	258.6	245.008	1.2674	3.1123
WHOY	2543.4	342.0	.0	593.0	9.661	1.1459	3.3165
WMRE *	228.8	145.8	31.7	153.2	261.239	.8003	
WNSS *	412.6	169.4	18.3	232.1	137.647	.6389	
CKSM *	813.7	195.2	8.2	675.2	46.133	.6230	
WSML *	526.6	43.4	14.1	278.9	107.449	.5993	
WOAI *	2362.3	55.8	.0	2976.2	9.344	.5562	

Point: WOGL25 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WAGE-CP*	215.5	70.4	33.2	366.6	276.959	2.0307	2.0307
WKNR *	570.9	105.5	12.9	1091.9	90.182	1.9694	2.8288
WGNY *	220.5	206.2	46.8	250.6	268.009	1.3431	3.1315
WHOY	2569.2	342.3	.0	596.6	9.451	1.1276	3.3283
WMRE *	206.1	141.6	34.5	150.4	283.035	.8512	3.4354
WNSS *	385.3	168.7	19.6	233.1	149.558	.6973	
CKSM *	786.7	195.7	8.6	668.5	48.588	.6496	
WOAI *	2372.4	55.2	.0	2976.2	9.216	.5486	

Point: WOGL26 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	562.1	102.9	13.1	1085.9	91.913	1.9962	1.9962
WAGE-CP*	225.7	63.7	32.0	374.1	266.736	1.9958	2.8227
WGNY *	195.8	209.7	50.2	241.2	292.575	1.4113	3.1559
WHOY	2594.9	342.5	.0	600.1	9.245	1.1095	3.3452
WMRE *	184.8	136.3	37.5	146.5	305.043	.8936	3.4625
WNSS *	358.0	167.9	21.1	233.8	162.943	.7618	
CKSM *	759.8	196.2	9.0	661.1	51.246	.6776	
CJSS *	566.1	184.2	13.0	319.8	85.201	.5449	
WOAI *	2382.8	54.6	.0	2976.2	9.087	.5409	

TABLE 2
~ 10 ~

Point: WOGL27 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	554.6	100.1	13.3	1175.0	93.392	2.1948	2.1948
WAGE-CP*	238.7	57.6	30.5	382.1	254.303	1.9434	2.9315
WGNY *	172.0	214.2	53.9	229.8	318.053	1.4617	3.2757
WHOY	2620.7	342.7	.0	603.5	9.043	1.0915	3.4528
WMRE *	165.5	129.8	40.6	141.8	326.170	.9250	3.5746
WNSS *	330.8	166.9	22.8	234.2	177.997	.8338	
CKSM *	732.9	196.8	9.5	653.1	54.130	.7070	
CJSS *	538.4	184.4	13.8	316.9	91.412	.5793	
WOAI *	2393.5	53.9	.0	2976.2	8.956	.5331	

Point: WOGL28 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	548.3	97.3	13.5	1333.6	94.585	2.5227	2.5227
WAGE-CP*	254.1	52.2	29.0	389.6	240.417	1.8732	3.1421
WGNY *	149.6	220.1	57.6	216.4	343.325	1.4862	3.4758
WHOY	2646.6	343.0	.0	606.9	8.846	1.0737	3.6379
WMRE *	148.8	121.6	43.7	136.5	344.961	.9417	3.7578
WNSS *	303.7	165.8	24.7	234.6	194.917	.9147	
CKSM *	706.1	197.4	9.9	644.2	57.264	.7378	
CJSS *	510.7	184.6	14.6	313.6	98.323	.6168	
CFGO *	533.3	175.5	13.9	294.5	91.952	.5416	
WOAI *	2404.4	53.3	.0	2976.2	8.825	.5253	

Point: WOGL29 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	543.5	94.4	13.6	1461.4	95.460	2.7901	2.7901
WAGE-CP*	271.5	47.5	27.3	396.4	225.770	1.7901	3.3149
WGNY *	129.3	227.9	61.3	201.6	366.749	1.4784	3.6297
WHOY	2672.5	343.2	.0	610.2	8.653	1.0560	3.7802
WNSS *	276.8	164.4	26.8	234.2	213.893	1.0018	3.9107
WMRE *	135.9	111.7	46.3	131.5	359.725	.9462	
CKSM *	679.4	198.0	10.4	633.8	60.676	.7691	
CJSS *	483.0	184.8	15.5	309.7	106.037	.6569	
CFGO *	505.6	175.3	14.7	292.4	98.964	.5787	
WBZY *	433.1	91.1	17.4	204.9	131.007	.5370	
WOAI *	2415.5	52.7	.0	2976.2	8.694	.5175	

TABLE 2

Point: WOGL30 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WAGE-CP*	226.7	85.6	31.9	370.5	266.849	1.9774	1.9774
WKNR *	611.5	109.8	20.0	1145.3	82.028	1.8790	2.7277
WGNY *	265.0	196.8	41.4	302.1	229.299	1.3852	3.0593
WHOY	2509.6	342.2	.0	596.2	9.938	1.1851	3.2808
WMRE *	263.8	145.2	28.0	162.4	230.892	.7500	
WSML *	524.0	47.3	14.2	314.8	108.401	.6825	
CKSM *	836.1	193.4	7.9	697.0	44.286	.6174	
WNSS *	444.0	167.3	17.0	242.9	125.514	.6096	
WOAI *	2372.7	56.7	.0	2976.2	9.303	.5537	

Point: WOGL31 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WAGE-CP*	229.7	78.7	31.6	375.1	263.682	1.9783	1.9783
WKNR *	600.7	107.3	20.3	1102.4	83.932	1.8505	2.7089
WGNY *	238.4	198.7	44.5	293.8	251.665	1.4785	3.0861
WHOY	2535.4	342.5	.0	599.8	9.720	1.1660	3.2991
WMRE *	241.2	141.5	30.3	161.2	249.846	.8054	
WNSS *	416.9	166.5	18.1	244.3	135.845	.6638	
CKSM *	808.9	193.8	8.3	691.8	46.604	.6448	
WSML *	542.3	45.0	13.6	295.0	103.209	.6090	
WOAI *	2382.4	56.0	.0	2976.2	9.179	.5464	

Point: WOGL32 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WAGE-CP*	235.9	72.0	30.9	380.7	257.537	1.9608	1.9608
WKNR *	591.0	104.8	12.4	1090.8	85.672	1.8690	2.7089
WGNY *	212.2	201.0	47.9	283.3	276.200	1.5650	3.1285
WHOY	2561.2	342.7	.0	603.3	9.507	1.1471	3.3321
WMRE *	219.7	137.1	32.7	159.1	269.441	.8572	3.4406
WNSS *	389.8	165.6	19.4	245.9	147.405	.7250	
CKSM *	781.8	194.2	8.7	686.1	49.112	.6739	
WSML *	561.4	42.9	13.1	276.4	98.148	.5425	
WOAI *	2392.3	55.4	.0	2976.2	9.054	.5389	

TABLE 2

Point: WOGL33 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WAGE-CP*	245.2	65.8	29.9	386.9	248.851	1.9255	1.9255
WKNR *	582.5	102.2	12.6	1100.7	87.214	1.9199	2.7191
WGNY *	186.4	204.0	51.6	270.4	302.621	1.6366	3.1737
WHOY	2587.1	343.0	.0	606.7	9.299	1.1283	3.3683
WMRE *	199.9	131.8	35.3	156.5	289.008	.9045	3.4876
WNSS *	362.8	164.6	20.8	247.3	160.353	.7930	
CKSM *	754.7	194.7	9.1	679.8	51.833	.7047	
CJSS *	565.1	182.0	13.0	327.0	85.430	.5587	
WOAI *	2402.6	54.8	.0	2976.2	8.928	.5315	

* - indicates an adjacent channel station.

Point: WOGL34 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	575.1	99.6	12.8	1215.6	88.528	2.1523	2.1523
WAGE-CP*	257.1	60.0	28.7	392.9	238.190	1.8717	2.8523
WGNY *	161.2	207.9	54.7	254.2	330.268	1.6793	3.3100
WHOY	2613.0	343.2	.0	610.1	9.095	1.1097	3.4911
WMRE *	182.1	125.4	37.9	153.1	307.583	.9416	3.6158
WNSS *	336.0	163.4	22.4	248.3	174.860	.8685	
CKSM *	727.7	195.2	9.5	672.9	54.787	.7373	
CJSS *	537.3	182.1	13.8	324.4	91.679	.5948	
CFGO *	562.9	173.5	13.1	307.5	85.219	.5241	
WOAI *	2413.0	54.1	.0	2976.2	8.802	.5239	

Point: WOGL35 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	569.1	96.9	12.9	1366.9	89.582	2.4490	2.4490
WAGE-CP*	271.4	54.9	27.3	399.0	226.159	1.8046	3.0421
WGNY *	137.1	213.2	57.1	235.6	357.956	1.6865	3.4783
WHOY	2638.9	343.4	.0	613.3	8.896	1.0913	3.6455
WMRE *	167.0	117.7	40.4	149.5	323.931	.9687	3.7720
WNSS *	309.4	162.0	24.2	249.4	191.097	.9532	3.8906
CKSM *	700.7	195.7	10.0	665.3	58.003	.7718	
CJSS *	509.5	182.2	14.6	321.5	98.637	.6343	
CFGO *	535.3	173.2	13.8	304.6	91.448	.5570	
WOAI *	2423.8	53.5	.0	2976.2	8.674	.5163	

TABLE 2

Point: WOGL36 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	564.3	94.1	13.0	1487.5	90.352	2.6879	2.6879
WAGE-CP*	287.7	50.2	25.9	404.9	213.331	1.7275	3.1952
WGNY *	114.7	220.7	59.8	215.6	383.860	1.6552	3.5984
WHOY	2664.9	343.6	.0	616.6	8.701	1.0730	3.7550
WNSS *	283.0	160.3	26.3	249.8	209.214	1.0453	3.8978
WMRE *	155.5	108.7	42.4	146.1	336.663	.9839	4.0201
CKSM *	673.8	196.3	10.5	656.2	61.510	.8072	
CJSS *	481.7	182.3	15.5	318.0	106.406	.6767	
CFGO *	507.6	172.9	14.7	300.8	98.377	.5919	
WBZY *	454.1	90.9	16.6	208.6	123.077	.5134	
WOAI *	2434.8	52.9	.0	2976.2	8.546	.5087	

Point: WOGL37 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WAGE-CP*	248.2	85.8	29.5	384.0	247.286	1.8993	1.8993
WKNR *	631.2	109.0	19.3	1124.6	78.188	1.7586	2.5884
WGNY *	259.8	192.2	42.0	342.0	233.574	1.5974	3.0416
WHOY	2501.6	342.7	.0	603.1	9.999	1.2061	3.2721
WMRE *	276.3	141.5	26.9	169.2	220.936	.7478	
WSML *	540.7	48.7	13.7	330.1	103.846	.6857	
CKSM *	832.0	191.9	7.9	711.0	44.671	.6352	
WNSS *	448.9	164.6	16.8	254.4	123.676	.6293	
WOAI *	2392.9	56.9	.0	2976.2	9.138	.5439	

Point: WOGL38 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WAGE-CP*	250.8	79.5	29.3	387.9	244.627	1.8980	1.8980
WKNR *	620.7	106.6	11.7	1100.5	79.901	1.7586	2.5875
WGNY *	232.6	193.6	45.2	332.2	256.956	1.7073	3.1000
WHOY	2527.5	342.9	.0	606.6	9.778	1.1863	3.3192
WMRE *	254.8	137.7	28.9	168.5	238.011	.8022	
WNSS *	422.1	163.7	17.9	256.3	133.669	.6853	
CKSM *	804.6	192.3	8.3	706.6	47.032	.6647	
WSML *	558.4	46.5	13.2	310.4	99.099	.6151	
WOAI *	2402.4	56.2	.0	2976.2	9.017	.5367	

TABLE 2

Point: WOGL39 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WAGE-CP*	256.5	73.3	28.7	392.4	239.440	1.8790	1.8790
WGNY *	205.7	195.4	47.9	319.4	282.756	1.8062	2.6064
WKNR *	611.2	104.2	11.9	1092.1	81.460	1.7792	3.1558
WHOY	2553.5	343.2	.0	610.0	9.563	1.1667	3.3645
WMRE *	234.5	133.2	31.0	167.3	255.476	.8547	3.4714
WNSS *	395.3	162.6	19.1	258.4	144.812	.7485	
CKSM *	777.4	192.6	8.7	701.8	49.590	.6961	
WSML *	576.9	44.4	12.7	291.6	94.447	.5508	
CJSS *	592.6	179.8	12.3	335.9	79.851	.5364	
WOAI *	2412.3	55.6	.0	2976.2	8.896	.5295	

Point: WOGL40 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WGNY *	179.0	197.7	49.9	304.5	310.725	1.8924	1.8924
WKNR *	602.9	101.7	12.1	1121.7	82.837	1.8584	2.6524
WAGE-CP*	265.0	67.5	27.9	397.2	232.058	1.8436	3.2301
WHOY	2579.4	343.4	.0	613.4	9.352	1.1473	3.4278
WMRE *	215.9	128.0	33.2	165.5	272.722	.9026	3.5447
WNSS *	368.8	161.4	20.5	260.5	157.245	.8191	
CKSM *	750.1	193.1	9.2	696.6	52.367	.7296	
CJSS *	564.8	179.8	13.0	333.8	85.491	.5708	
WOAI *	2422.3	54.9	.0	2976.2	8.773	.5222	

Point: WOGL41 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	595.7	99.1	12.2	1254.3	84.005	2.1073	2.1073
WGNY *	152.6	200.8	51.4	286.6	340.211	1.9504	2.8714
WAGE-CP*	276.0	62.1	26.9	402.3	222.920	1.7938	3.3856
WHOY	2605.4	343.6	.0	616.6	9.147	1.1280	3.5686
WMRE *	199.5	121.8	35.4	163.4	288.913	.9442	3.6914
WNSS *	342.4	160.0	22.0	262.1	171.113	.8970	
CKSM *	722.9	193.5	9.6	690.8	55.388	.7653	
CJSS *	537.0	179.8	13.8	331.5	91.751	.6084	
CFGO *	565.5	171.4	13.0	305.3	84.621	.5167	
WOAI *	2432.7	54.3	.0	2976.2	8.650	.5149	

TABLE 2

Point: WOGL42 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	589.8	96.5	12.4	1398.0	84.939	2.3748	2.3748
WGNY *	127.0	205.2	53.7	265.4	369.970	1.9641	3.0818
WAGE-CP*	289.3	57.2	25.8	407.5	212.510	1.7321	3.5352
WHOY	2631.5	343.8	.0	619.8	8.945	1.1089	3.7051
WNSS *	316.3	158.3	23.8	263.8	186.555	.9842	3.8336
WMRE *	185.8	114.6	37.3	160.9	303.018	.9754	3.9557
CKSM *	695.8	194.0	10.1	684.3	58.680	.8031	
CJSS *	509.2	179.8	14.6	329.0	98.722	.6496	
CFGO *	538.0	171.0	13.8	299.8	90.756	.5442	
WOAI *	2443.3	53.7	.0	2976.2	8.525	.5075	

Point: WOGL43 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	585.1	93.8	12.5	1511.9	85.617	2.5889	2.5889
WGNY *	102.4	211.7	56.8	240.5	398.033	1.9144	3.2198
WAGE-CP*	304.6	52.7	24.6	412.4	201.299	1.6602	3.6226
WHOY	2657.5	344.1	.0	623.0	8.749	1.0900	3.7831
WNSS *	290.5	156.4	25.7	265.1	203.683	1.0798	3.9342
WMRE *	175.5	106.4	39.0	158.9	313.907	.9975	4.0587
CKSM *	668.7	194.5	10.6	676.5	62.275	.8425	
CJSS *	481.4	179.8	15.6	325.8	106.508	.6939	
CFGO *	510.5	170.5	14.6	293.3	97.572	.5723	
WOAI *	2454.1	53.1	.0	2976.2	8.400	.5000	

Point: WOGL44 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WGNY *	228.7	188.4	40.1	377.6	260.657	1.9684	1.9684
WAGE-CP*	272.1	80.2	27.3	398.4	227.088	1.8095	2.6737
WKNR *	640.7	105.9	11.2	1100.9	76.123	1.6760	3.1556
WHOY	2519.9	343.4	.0	613.5	9.835	1.2067	3.3784
WMRE *	269.3	134.2	27.5	175.3	226.029	.7925	
WNSS *	428.2	160.9	17.6	268.1	131.158	.7032	
CKSM *	800.8	190.8	8.4	719.6	47.416	.6824	
WSML *	574.9	47.9	12.8	324.9	95.129	.6182	
WOAI *	2422.6	56.4	.0	2976.2	8.859	.5273	

TABLE 2

Point: WOGL45 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WGNY *	201.2	189.5	41.8	366.6	287.367	2.1072	2.1072
WAGE-CP*	277.2	74.5	26.8	402.3	222.699	1.7917	2.7659
WKNR *	631.5	103.5	11.4	1096.9	77.522	1.7007	3.2469
WHOY	2545.9	343.6	.0	616.8	9.618	1.1864	3.4569
WMRE *	250.2	129.8	29.3	174.8	241.492	.8441	
WNSS *	401.9	159.7	18.8	270.6	141.832	.7676	
CKSM *	773.4	191.1	8.8	715.7	50.019	.7159	
WSML *	592.8	45.8	12.3	306.2	90.854	.5563	
CJSS *	593.0	177.8	12.3	342.1	79.757	.5457	
WOAI *	2432.2	55.8	.0	2976.2	8.740	.5203	

Point: WOGL46 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WGNY *	173.8	191.0	44.0	353.5	316.461	2.2373	2.2373
WKNR *	623.4	101.1	11.6	1148.4	78.754	1.8088	2.8770
WAGE-CP*	285.0	69.0	26.1	406.5	216.413	1.7592	3.3722
WHOY	2572.0	343.9	.0	620.0	9.405	1.1663	3.5682
WMRE *	232.8	124.6	31.2	173.7	256.595	.8916	
WNSS *	375.8	158.3	20.1	273.3	153.688	.8400	
CKSM *	746.1	191.5	9.2	711.4	52.847	.7519	
CJSS *	565.2	177.7	13.0	340.3	85.383	.5811	
WOAI *	2442.2	55.1	.0	2976.2	8.621	.5132	

Point: WOGL47 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WGNY *	146.6	193.0	45.1	337.1	347.294	2.3414	2.3414
WKNR *	616.4	98.6	11.8	1290.7	79.795	2.0599	3.1185
WAGE-CP*	295.2	63.9	25.3	410.8	208.575	1.7139	3.5584
WHOY	2598.1	344.1	.0	623.2	9.197	1.1463	3.7385
WMRE *	217.6	118.7	33.0	172.4	270.623	.9332	
WNSS *	349.9	156.7	21.6	275.4	166.846	.9191	
CKSM *	718.7	191.9	9.7	706.6	55.928	.7904	
CJSS *	537.4	177.6	13.8	338.2	91.627	.6198	
WOAI *	2452.3	54.5	.0	2976.2	8.501	.5060	

TABLE 2

Point: WOGL48 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WGNY *	119.6	195.9	50.0	315.2	378.590	2.3867	2.3867
WKNR *	610.6	96.1	11.9	1426.8	80.624	2.3007	3.3150
WAGE-CP*	307.6	59.2	24.4	414.9	199.569	1.6560	3.7057
WHOY	2624.2	344.3	.0	626.3	8.994	1.1266	3.8731
WNSS *	324.3	154.8	23.2	277.6	181.413	1.0073	4.0020
WMRE *	205.0	112.0	34.6	171.1	282.723	.9675	
CKSM *	691.4	192.3	10.2	701.1	59.289	.8313	
CJSS *	509.6	177.4	14.6	336.0	98.578	.6624	
CFGO *	541.4	168.8	13.7	285.8	89.885	.5138	
WOAI *	2462.8	53.9	.0	2976.2	8.380	.4988	

Point: WOGL49 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WKNR *	606.0	93.5	12.0	1534.8	81.221	2.4932	2.4932
WGNY *	93.2	200.6	56.9	281.6	408.271	2.2997	3.3918
WAGE-CP*	322.0	54.8	23.4	418.6	189.779	1.5890	3.7456
WHOY	2650.4	344.5	.0	629.4	8.795	1.1071	3.9058
WNSS *	299.2	152.6	25.0	279.8	197.464	1.1049	4.0590
WMRE *	195.6	104.5	35.9	169.8	291.990	.9918	
CKSM *	664.2	192.7	10.7	694.5	62.965	.8746	
CJSS *	481.9	177.3	15.5	333.0	106.340	.7083	
CFGO *	514.1	168.2	14.5	276.9	96.559	.5347	
WOAI *	2473.5	53.3	.0	2976.2	8.258	.4915	

Point: WOGL50 Frequency: 1210 kHz

Station Call	Distance (km)	Bearing (degs.)	Theta (degs.)	Radiation (mV/m)	SW Mult. (uV/m)	IF Level (mV/m)	RSS (mV/m)
WGNY *	198.8	183.4	35.4	433.7	289.796	2.5139	2.5139
WAGE-CP*	298.1	75.4	25.1	411.1	207.285	1.7041	3.0371
WKNR *	651.8	103.0	11.0	1106.0	73.838	1.6333	3.4484
WHOY	2538.6	344.1	.0	623.6	9.671	1.2061	3.6532
WMRE *	266.6	126.7	27.8	181.4	227.758	.8265	
WNSS *	409.4	156.8	18.4	282.3	138.521	.7822	
CKSM *	770.0	189.5	8.9	727.5	50.395	.7332	
WSML *	609.0	47.1	11.9	320.0	87.376	.5592	
CJSS *	594.1	175.7	12.3	347.9	79.517	.5533	
WOAI *	2452.3	55.9	.0	2976.2	8.588	.5112	