



# DX NEWS

*the magazine of the  
National Radio Club*

— SINCE 1933 —

Volume 46, Number 21

Monday, March 19, 1979.

## STATIC FROM HQ

Just a few notes...this is the last of the weekly (weakly?) issues for this season, but don't let that stop you from sending in your reports as we still have the every other week issues and monthly issues to go! If you liked those great sweep and test tones used on the KIUP test, Eric Pithian has a deal for you!! He has obtained 10 broadcast carts (these are not 8-tracks) of the same tones for use by testing stations. He'll make the carts available, paying postage both ways, to test arrangers or directly to the testing station. His address is P.O. Box 452, Beuna Vista, Colorado 81211. (Thank you Eric!!!)...Our intrepid secretary has been working a lot of overtime (even Saturdays and he's a government employe!!) so he says to stand by if you wrote us and have no reply as yet...also, now is the time to register for St. Louis--the information and registration form is inside this week! That'll do it--we'll see you in two weeks!

*Lee.*

## CPC TESTS

Times are Eastern Local.

- Every Monday in March
- WTHM-1530 Lapeer, Michigan 0400-0600 (may be able to get earlier time). No details. 5 kw, directional. SASE is necessary for reply. Reports to WTHM, c/o Frederick R. Vobbe, CE/OM, P.O. Box 147, Lapeer, Mich. 48446. Fred is a good friend of NRCer Gary Siegel and of all DXers. Arranged: Bryan Lee.
- March 19 WKNX-1210 Saginaw, Michigan 0200-???? 10 kw. Test to include rock music and IDs. Reports to Randall E. Bhirdo, WKNX, 5200 State Street, Saginaw, Mich. 48603. Prepaid calls to 517/799-1000. Arranged: Wayne Heinen.
- March 26 KORE-1050 Springfield, Oregon. 0400-0500. 1000 watts, non-directional. Will use tones and IDs. Prepaid calls to 503/746-1631. Reports to Steve Barton, CE, KORE, Box 296, Springfield, Ore. 97477. Arranged: Pete Nolan, GWDXA, who will be at the mic.

## THEY JOINED

- Martin Roppolo, 612 Armadale Place, Louisville, Ky. 40243  
 Wayne Moseley, P.O. Box 1349, Crestline, California 92325  
 Herb Childs, 1810 Euclid Avenue, Berkeley, California 94709  
 Martin Poltz, 211 Elvin Court, Lansing, Michigan 48912  
 Bill Harms, 865 N 160 W #2, Provo, Utah 84601  
 Bill Regan, 110 Craddock Street, Syracuse, New York 13207  
 John P. Ludwig, Rt. 2, Bcx 79A, Harper's Ferry, W.Va. 25425 (re-joins)

## LOOK INSIDE

Domestic DX Digest.....	2
International DX Digest.....	6
Atmospheric and Galactic Noise in the BCB.....	9
Baseball List Supplement.....	11
Cape Cod Groundwave Study.....	12
Afr Graph.....	14
Maine Station Map.....	15
Remotely Tuned Directional Loop Antenna.....	16
HAM Operator's List Update.....	26
Tale of Two Cities.....	27
Musings of the Members.....	30
St. Louis--Meet Us There Labor Day!.....	42

# DOMESTIC DX DIGEST

RAY ARRUDA  
47 BURT STREET  
ACUSHNET, MASS. 02743  
(617) 998-3958

## DX TESTS

KONA - Not heard by PRM, ROSS, RA.  
KGWA - Not heard by PRM, ROSS, ERC, RA.  
KUKU - Heard by DS, PRM, tent. by ERC, not heard by ROSS, RA.  
WCVS - Tent. w/TT by ROSS.  
KRDZ - Tent. w/TT by PRM, DS, not heard by RA.  
WCHE - Heard by DS.  
KQNK - Not heard by MS-MB.

RADIO STATION

**WOKW**

P. O. BOX 1410  
BROCKTON, MASS. 02403

## FREQUENCY CHECKS

4th Mon. WJDY-1470 per list by ERS, PRM, RA.  
WGOE-1590 RA.

## SPECIAL

1060 KYW PA PHILADELPHIA - to be Phillies flagship stn. per announcement on nx broadcast. (ERC-MA)  
1330 WFBC SC GREENVILLE - is now AN-7, noted during KUKU test period. (ERC-MA)  
1490 WLPA PA LANCASTER - to change calls 3/12 from WDDL. (DS)  
1520 WVOB MD BEL AIR - on w/snow-extended broadcasts: 2/8 s/on 0555, 2/15 on late until 2100, 2/19 on from 0600-2100, 2/20 s/on @ 0600. (MT-MD)  
1636 ---- -- ----- 2/17 0505 someone noted here w/T40, & Oldies, giving a 617 phone #, "16-40 Radio" etc. Could this be The PRN Stan Morss is talking about? (DS-DE) Yes, I think the general location is in the Worcester, Mass. area. (RA)

The following stations noted on during evening of 2/19 w/snow info/closings:

900 WJWL  
970 WAMD On day pattern/power.  
1280 WSPD Tentative.

These three noted by DS-DE.

## MIDDAY TO MIDNIGHT

580 UNID -- ----- 2/11 noted w/KC Kings BKB 1853-1900, gone completely @ 1900 so suspect WIBW, but no ID. (JB-NY)  
630 WKBX GA SAVANNAH - 2/9 1801-1815 w/rr, nx, "KBX" ID. (MT-MD)  
730 CJNR ON BLIND RIVER - 2/16 o/CKAC w/nx @ 2200. (JB-NY)  
780 WABS VA ARLINGTON - 2/19 1030 w/religion (WBMD-750 snowed out till 1045 allowed this). (MT-MD)  
790 KFYO TX LUBBOCK - 2/23 2000 mixture of C&W mx, MoR, into CBS Nx. (PS-KS)  
WTAR VA NORFOLK - 2/26 noted @ 1223 during eclipse time. (ERC-MA)  
800 CKLW ON WINDSOR - 2/26 noted @ 1210 during eclipse time. (ERC-MA)  
810 KAPE NM SANTA FE - 2/24 w/C&W mx to s/off 1933-1945. (PS-KS)  
930 CFBC NB ST. JOHN - 2/26 in null of WWNH during eclipse, IDed @ 1206. (ERC-MA)  
940 WYLD LA NEW ORLEANS - 2/24 2030 w/Disco/black mx & "Disco 94" IDs. (PS-KS)  
950 WWJ MI DETROIT - 2/19 2300 new mixing w/WPEN w/nx, "Newsradio 95" IDs. (SM-MA)  
WSPA SC SPARTANBURG - 2/10 1950 all alone but weak w/"WSPA Radio 95" ID, rare here w/only 2nd or 3rd time ever heard. (JC-IL)  
960 KFVS MO CAPE GIRARDEAU - 2/25 noted w/Mutual Nx @ 1900. (PS-KS)

970 KJLT NE NORTH PLATTE - 2/10 1905-1909 good o/WMAX w/wx, ads, IDs. (JC-IL)  
980 WONE OH DAYTON - 2/10 1913-1920 w/wx/C&W mx, IDs o/WSIX/WITY/KMBZ. (JC-IL)  
CBV PQ QUEBEC - 2/11 noted @ 1929 on an xlnt night for Quebec stations. (JB-NY)  
990 WANT VA RICHMOND - 2/10 fair @ 1745 s/off. (JB-NY)  
1000 KTOK OK OKLAHOMA CITY - 2/10 1911 fair o/WCFL w/ID, ad, not heard in o/a yr, usually just WCFL. (JC-IL) (PS-KS)  
KKIM NM ALBUQUERQUE - 2/19 1937 EZL religious mx way o/KTOK/WCFL.  
KOMO WA SEATTLE - 2/19 2017 w/spot followed by sports @ 2018, annrc: Gary Johnson, holding strong & steady o/KTOK w/guitar mx to 2025 power change, & that was that. (PS-KS)  
1060 KGFX SD PIERRE - 2/25 1904 w/nx. (PS-KS)  
1070 WHYZ SC GREENVILLE - 2/10 in the clear @ 1815 s/off. (JB-NY)  
1220 WFAX VA FALLS CHURCH - 2/22 1743-1745 wx for Washington, DC area, then s/off w/no SSB, fair o/WGAR. (BL-CT)  
1270 KWEB MN ROCHESTER - 2/19 1815 nx in low voice, MoR mx, into Paul Harvey @ 1829. (PS-KS)  
WMPM NC SMITHFIELD - 2/22 1800 s/off fair/good by OM, ID heard this time, so tentative earlier is now positive. (WPT-DC)  
1310 KOKX IA KEOKUK - 2/19 1820 mx then sports @ 1845 about 15 secs. before power change. (PS-KS)  
1330 KVOL LA LAFAYETTE - 2/9 1955 fair w/ID thru mess. (JC-IL)  
1340 WHAP VA HOPEWELL - 2/7 1809 noted w/snow cancellations. (MT-MD)  
WDCR NH HANOVER - 2/20 2356 EZL mx, YL DJ ments. of UPI Nx upcoming, fair but soon faded in mess. (BL-CT)  
WIRY NY PLATTSBURGH - 2/23 2335 fair/fadey w/local spots/ads. (BL)  
1360 KBKB IA FT. MADISON - 2/10 1845 fair w/ID/ads thru WXCL slop. (JC-IL)  
1380 KOTA SD RAPID CITY - 2/17 Nx, Wynn Elliot Sports to 1915, local nx w/female annrc, power change @ 1919. (PS-KS)  
1410 WUNI AL MOBILE - 2/18 C&W mx, then 3 spots @ 1936. (PS-KS)  
KQV PA PITTSBURGH - 2/20 2330 ID "KQV Nxtime 11:30" weak o/u WPOP rarely heard. (BL-CT)  
WDOV DE DOVER - 2/22 1803 fair o/WPOP w/nx & area ments. (BL-CT)  
1420 WLNA NY PEEKSKILL - 2/21 1730 w/BFL mx, s/off annrc, fair/good o/CKTL. (BL-CT)  
1450 WIIN NJ ATLANTIC CITY - 2/22 1752 nx, many ments. of Atlantic City, ID sounded the same as WINS-1010 NYC... "WIINS Nxtime 5:50." (BL-CT)  
WMBH MO JOPLIN - 2/25 noted w/nx @ 1333. (PS-KS)  
1470 WPDN NY POTSDAM - 2/24 1724 poor o/WSAN w/Pop mx, loud DJ. (BL-CT)  
WNBP MA NEWBURYPORT - 2/19 1537 new w/WNBP Road Show. (SM-MA)  
WRGA GA ROME - 2/18 1905-1920 w/nx/mx & snow info. (PS-KS)  
KRDZ CO WRAY - 2/19 Nx, hospital nx @ 1920, wx & s/off 1927-1930, w/KRBC nulled. (PS-KS)  
1480 WJIT NY NEW YORK - 2/24 1813 fair/good atop channel w/SS. (WPT-DC)  
1540 KLKC KS PARSONS - noted on late 2/24 @ 1918, Tsk!! Gone by 1923. (PS-KS)  
1550 WTTC PA TOWANDA - 2/21 1746 just caught s/off, many IDs but no SSB. That Towanda was supposed to s/off 1730 Feb? (BL-CT)  
WBVM NY UTICA - 2/24 1731 fair @ s/off w/no SSB. (BL-CT)  
WAAY AL HUNTSVILLE - 2/24 1830 ID by male DJ w/CST TC, heard again 2/27 1830, both times fair/good atop channel. (WPT-DC)  
KIWA IA SHELTON - 2/10 s/off @ 1900 w/FM promo, fair in jumble.  
1560 WQXR NY NEW YORK - 2/20 2208 xlnt w/Classical mx. (SM-MA) (JC-IL)  
WPAD KY PADUCAH - 2/21 2100 C&W mx, little talk, sounding automated, then CBS Nx. (PS-KS)  
1570 CKLQ MB BRANDON - 2/19 nx 1800-1805, into C&W mx, in XERF null, fading but xlnt @ peaks, power change @ 1807. (PS-KS)  
1580 KAMI NE COZAD - 2/19 1853 More MoR mx to nx @ 1855. (PS-KS) (PS-KS)  
1600 KBOR TX BROWNSVILLE - An old friend 2/21, wx @ 2027 in KATZ null.



Radio Station WJAT, Inc.

P. O. BOX 288  
SWAINSBORO, GA. 30401

MIDNIGHT TO DAWN

540 CBK SA REGINA - 2/18 in weakly 0200-0205 s/off - finally heard after years of trying. (JB-NY)

550 WGR NY BUFFALO - 2/26 0214 fair in WKRC null w/promo for Sabres Hockey, "GR-55" ID. (PRM-OH)

570 CFCB NF GRAND FALLS - noted u/WMCA 2/26 along w/his relayer on 790, CFWN, F anncr, Pop mx. CFCB is only ID used. (ERC-MA)

CFOS ON OWEN SOUND - 2/12 0615 w/local spot, ments. of Gray & Bruce Counties. (MT-MD)

590 CKRS PQ JONQUIERE - 2/17 in nicely 0200-0205 w/CKEY nulled on TRF, slow ID & jx @ 0205. (JB-NY)

600 KOGO CA SAN DIEGO - 2/16 xInt @ 0335 w/PSA/contemp. mx. (ABT-CA)

650 WSM TN NASHVILLE - 2/20 poor 0515 w/wx, slop from strong local KNBR. (ABT-CA) Has been asking listeners lately to write in & protest as "The FCC is about to deny you the privilege of listening to WSM....." etc. (ERC-MA)

720 KDWN NV LAS VEGAS - 2/16 noted @ 0340 w/Big Band mx from local casino lounge w/ments. of visitors from Seattle, & playing their requested song. (ABT-CA)

770 WABC NY NEW YORK - was silent 2/26 @ 0215 check, hasn't been off in months. (RA-MA)

790 CKSO ON SUDBURY - 2/21 0021 w/C&W mx, program note mentions of Mike Janssen, fair w/no sign of WEAN. (BL-CT)

850 WEAT FL WEST PALM BEACH - first logging from FL, WHDH off 2/19 0254, ID as "All Star Country" w/C&W mx by C.W. McCall. (SM-MA)

860 CBH NS HALIFAX - 2/12 noted 0007-0010 s/off w/O Canada u/CJBC which had 0010 s/off as well. (JB-NY)

920 CJCH NS HALIFAX - 2/19 loud w/nx @ 0056. (JB-NY)

WGST GA ATLANTA - 2/26 fair 0105 ending nx, wx, into Barry Farber Show o/UNID. (PRM-OH)

930 CKNS ON ESPANOLA - 2/19 0110 s/off ments. of several CBL-740 LPRT's, then NA, s/off time doesn't agree w/log. (MT-MD)

WFMD MD FREDERICK - 2/28 0213 noted on AN sked w/rr mx, this one hasn't been heard in 20 years-they must have been on day pattern. (ERC-MA)

950 WSPA SC SPARTANBURG - 2/12 noted concluding ET @ 0103 as local WBBF-950 took a rare morning off. (JB-NY)

1060 UNID -- ----- 2/26 0110-0150+ w/varying TT, bits of OC, no IDs, noted mixing w/CJRP & I think, WNOE. (RA)

1150 WDEL DE WILMINGTON - 2/16 noted 0007 after NBC Nx. (JB-NY)

1190 KLIF TX DALLAS - 2/19 0223 unbelievable but true, TX # 3 w/WOVO off, some WHAM splatter. (SM-MA) Nice!!! (RA-MA)

1220 CKDA BC VICTORIA - 2/18 fair signal @ 0400 w/Rock & verb on DJ's voice, sounded good! (ABT-CA)

1230 WMOU NH BERLIN - In "cahoots" with WXLQ (Fm) is now AN, maybe weekends only, heard atop @ 0200 Sat. 2/24 w/rr & CBS Nx on the hours. (ERC-MA)

UNID -- ----- OC/TT/sweep tones 0212-0304+ (date?) mostly atop w/antenna favoring E/W reception, no audio heard. (ERC-MA)

1250 WTAE PA PITTSBURGH - 2/19 0254 noted in passing w/AM-FM ID then rr/Oldies, NSP now? (DS-DE) Hope not! (RA)

1290 WKNE NH KEENE - 2/18 in well o/WNBF @ 0012. (JB-NY)

1330 WOLD VA MARION - 2/7 0600 riding atop WASA OC w/s/on & ments. of area, Marion & FM call. (MT-MD)

WHET MA WALTHAM - Sign off is 0100 Sundays, no mx, probably the same other days as well. (ERC-MA)

1340 KRAM NV LAS VEGAS - 2/20 0524 good atop here often w/C&W mx. (ABT-CA)

WEVE MN EVELETH - 2/11 0146-0158 apparently simulcasting w/FM, Sports, Oldies mx & IDs mentioning "Stereo WEVE... 24 hours a day." A log change? (MS-MB)

1350 KRLC ID LEWISTON - 2/20 fair w/auto spot @ 0540. (ABT-CA)

1370 UNID -- ----- TT on & off 2/26 0300-0320 o/u WFEA. (ERC-MA)

UNID -- ----- 2/24 noted w/TT 0137-0141, then announcement but nothing heard but "....., Kentucky." "....." is on the air for equipment adjustment purposes." Probably WGOH. (JB-NY)

**METRO GROUP** **WKDA**    
 metro group bldg. p. o. box 518 plattsburgh, n.y. 12901 518 561-7600

*Wxks*

**wjwl**  
 RADIO 900  
 Georgetown, Del. 19947

F M 1 0 8 A M 1 4 3 0  
 99 REVERE BEACH PARKWAY • MEDFORD • MA 02155

1410 WMYR FL FT. MYERS - 2/28 0150 strong u/WPOF w/rr. (ERC-MA)

WDOV DE DOVER - 2/19 AN MM w/rr, snow info. (DS-DE)

1430 WQPD FL LAKELAND - 2/15 0044 strong w/rr o/u Cuban, common last few weeks. (DS-DE)

1450 KBMW MN BRECKENRIDGE - 2/11 0158-0204 w/sports, wx, s/off, saying they would return @ 0534 (CST), 2nd time heard in three years. (MS-MB)

WOL DC WASHINGTON - # 8 GY logging good 2/19 0128 w/ID & Soul mx. (SM-MA)

UNID -- ----- 2/26 running "Rock & Roll Roots" 0135 break, jx was "Q". (PRM-OH)

WNA8 CT BRIDGEPORT - 2/26 atop 0145 w/PSA, phone # sounded like 621-1450 then IDs & contest promo. (PRM-OH)

UNID -- ----- 2/26 0320-0323 high pitched TT in/out all the jumble. (ERC-MA)

1460 WCMB PA HARRISBURG - 2/26 fair 0058 w/ID then Ai Nx, equal @ 0100 to semi-local WBNS. (PRM-OH)

1470 WMBD IL PEORIA - 2/26 New 0306 ending nx and instantly a pest thru 0325 while trying for KRZD Test. (PRM-OH)

WRGA GA ROME - 2/19 0232-0245+ noted ending nx, then C&W mx, gave some cancellations due to wx, evidently on day pattern as local like here, o/WSAN. (DS-DE)

1490 UNID -- ---- TT 2/28 0141-0146. (ERC-MA)

1510 KGA WA SPOKANE - 2/18 wx, then C&W mx, fair w/some local KXRX slop. (ABT-CA) Time? (RA)

1520 WKBW NY BUFFALO - 2/26 noted off in passing @ 0255. (RA-MA) Noted totally off Wed. AM 2/28 @ 0134, on OC Thu. 3/1. (ERC)

1530 WTTI GA DALTON - 2/26 0121 another ET w/rr, must test everytime the needles get replaced in the turntables! (DS-DE) Heard same date @ 0228. (RA-MA)

1550 WAAY AL HUNTSVILLE - 2/25 0210 tuned in to immediately hear "...it's 56 degrees at W-A-A-Y"...good signal, much wanted, strong for 500W. (JC-IL) (DS-DE)

WMOO AL MOBILE - 2/19 0158 another ET w/religious mx/TT/many IDs.

1580 UNID -- ----- 2/19 0110-0119 instrumental mx noted, lotsa OC, off w/no ID. (DS-DE)

1590 WJSO TN JONESBORO - 2/20 0015 noted ending announced frequency check w/TT, ID @ end, way o/WQIQ/WQQW/WAKR. (DS-DE)

Nice to hear from Jerry Bond this time around. I did not notice anything unusual across the dials during the 2/26 eclipse. A few semi-local daytimers seemed a little stronger and that was about it. Until the next action packed episode, 73....

*R6Y*

THE BIG 15

JB	Jerry Bond, Rochester, NY	1939 RCA 86T, GE TRF, LW
JC	John Clemmer, Peoria, IL	TRF, SM2
ERC	Ernest R. Cooper, Provincetown, MA	2 HQ-180's, SM2, Loop
ROSS	Ross Hansch, Madison, WI	HQ-180, NRC Loop
BL	Bryan Lee, Brooklyn, CT	RF-2200, Loop
SM	Steven Miller, Boston, MA	TRF
PRM	Paul Mount, Nelsonville, OH	TRF, antenna back in Teaneck
DS	Dave Schmidt, New Castle, DE	HQ-180A, needle from WTTI
MS	Morris Sorensen, Leaf Rapids, MB, Canada	HQ-150, SM2/turntable
ERS	Elliot R. Straus, West Orange, NJ	R-390A, Loop, LW
PS	Paul Swearingen, Moran, KS	Fisher 125
ABT	Alphonse B. Tobia, Newark, CA	Panasonic RE-7670
WPT	William P. Townshend, Washington, DC	TRF
MT	Mike Tuggle, Bel Air, MD	Xtal Set, LW
RA	Ray Rocket, Acushnet, MA	SX-122, needle from WMOO turntable

# INTERNATIONAL DX DIGEST

Times are GMT. For ELT subtract 5 hours. Deadlines are usually Monday.

CHUCK HUTTON  
P.O. BOX 2087  
DECATUR, GA. 30030  
(404) 633-1198  
BEFORE 2300 ELT

- 531 UNID weak carrier w/SAH, nothing noted on 529, 0046 2/21. (Connelly)  
540 CUBA R. Reloj, this unid one still noted occasionally, best 0600'ish //550 et al. Very weak. First hrd in July '78. Has anyone else hrd or have info? (Krueger) Nobody else has reported a Cuban here. One thing puzzles me; if this is // 550 et al. it would seem to be a Rebelde outlet.... What you say?? CH  
548 ALGERIA Oran fair w/female AA chant 0442 2/24. (Connelly)  
574 EL SALVADOR has not been noted here since mid-January and also not on 575 after TIRN s/off so apparently a drifter (from 580??) and not a new stn. (Thomas)  
575 COSTA RICA San Jose TIRN fair w/Simon and Garfunkel 0545, s/off 0602 2/20. (Thomas)  
580 CUBA CMJM R. Progreso, Ciego de Avila good o/WKAQ w/usual chimes, then commentary 0528-0533 2/26. (DeLorenzo)  
580 PUERTO RICO San Juan WKAQ good o/u CMJM w/all news in SS, jingle "Radio Reloj" 0533-0545 2/26. (DeLorenzo)  
595 DOMINICA Roseau poor w/island rhythms and much QRN 0225 2/23. (Thomas)  
610 TRINIDAD AND TOBAGO Port-of-Spain NBS 0205 1/1-highly accented EE, soul mx, possibly nx, into pop/soul/calypso. No definite ID. (Baskind)  
612 MOROCCO Sebaa-Aioun fair w/man in AA 0445 2/24. (Connelly)  
621 CANARY ISLANDS Tenerife poor w/female vocal, then man in SS 0450 2/24. (Connelly)  
625.3 COSTA RICA San Jose R. Cucu fair w/mellow ballads and R. Cucu ID 0553 2/20. (Thomas)  
635 ECUADOR Quevedo presumed the one here poorly w/what sounded like Andean flute mx but unreadable voice 0410 3/1. (Thomas)  
640 SURINAM Paramaribo RADIKA w/Hindustani chanting u/Cuban which runs (mercifully) a sedate talk pgm 0857 1/28. (Baskind)  
645 PARAGUAY ZP19 R. Caaguazu, Coronel Oveido fair w/lively SS vocal and instrumental mx, rapid male anncr 0740-0746 2/26. Frequent, deep fades; signal not nearly as good as on 2/19; heavy atmospheric static. (DeLorenzo)  
657 NEW ZEALAND 2YC Wellington very weak w/c1 mx 0805 2/22. (Tomer)  
665 UNID fair carrier noted w/bits of audio (a first here) but nothing readable. Either a permanent fade or s/off 0500 2/25. (Thomas)  
690 COLOMBIA HJ CZ LV de Colombia, Bogota good, alone on channel w/ID and TC between 2 MoR SS vocals 0756 2/26. CMBC apparently off. (DeLorenzo)  
690 MEXICO Mexico DF, R. Mundo good 0310 2/28 w/frequent ID's and US and LA big band mx. (Thomas) 0506 2/8 heard "desde la ciudad de Mexico, Radio Mundo!!". U/Cuban and unid LA. (Baskind)  
693 JAPAN JOAB Tokyo weak w/JJ talk and "Nippon Hoso Kyokai" at 1120 2/26. (Tomer)  
702 AUSTRALIA 2BL Sydney weak w/jazz 1135 2/26. (Tomer)  
705 HONDURAS HRAM LV de Olancho 1058 2/8 w/loud ID's in the clear; not heard at this level before. (Baskind)  
719 PORTUGAL Norte good on car rx w/flute jazz, then PP talk 2224 2/20. Not sure if the 720 het was Sfax or YVOE-too early for CMGN/WGN. (Connelly)  
720 VENEZUELA YVOE R. Vision Oriente, Porlamar 2/9 0205-0250 w/xlnt sig w/Cuban nulled. Numerous jingles and time checks between uptempo mx. A few American tunes mixed in. (Hayes)  
735 ECUADOR Quito R. Melodia good w/Wedding March lead-in to 0425 Me-Iodia ID. Measured 734.8 3/1. (Thomas)  
738 SPAIN Barcelona to fjir peaks w/man in SS doing nx 0104 2/21. (Con)  
738 TAHITI Papeete poor u/fierce KCBS slop w/woman in FF 0605 2/27. (Tomer)  
756 NEW ZEALAND 1YA Auckland weak w/pop mx; woman anncr; hrd at 1140 2/26. (Tomer)  
765 SENEGAL Dakar to good peaks on car rx o/WABC QRM w/usual wailing 2265 2/22. (Connelly)  
770.5 COLOMBIA HJKH R. Tequendama, Bogota fair w/ID's, SS vocals 0804-0810

- (770.5, continued) 2/26; WABC off; approximate 500 Hz het against unid LA. (DeLorenzo)  
774 SPAIN Valencia/Caceres fair w/nx in SS, then RTVE IS 0105 2/21. (Connelly)  
774 AUSTRALIA 3LO Melbourne //702 w/jazz 1138 2/26. (Tomer)  
782 PORTUGAL Miramar good w/Olivia Newton John 0107 2/21. (Connelly)  
783 EAST GERMANY (tentative) Burg suspected w/male vocal, possibly part of an opera 0108 2/21. (Connelly)  
800 HONDURAS R. Yoro 0659 1/5 "aqui esta R. Yoro, el super Yoro" repeated a couple of times. Buried u/super slop-Mexico, Canada, Panama, PJB, everybody else. (Baskind)  
819 AUSTRALIA 2GL Glen Innes fair w/jazz 1047 2/26. (Tomer)  
819 MOROCCO Rabat poor to fair w/man in AA, in and out of 818 TVI QRM 0112 2/21. (Connelly)  
825 COSTA RICA TIOS San Jose hrd briefly w/Titania ID 0507 2/18. (Tomer)  
825 PANAMA HOR56 R. Peninsula, Macaracas 2/24 0442 weak w/numerous ID's. (Hayes)  
828 JAPAN JOBB Osaka good sig 1045 2/26 w/JJ talk. (Tomer)  
840 SAINT LUCIA R. Caribbean International, Castries 2/9 0250 w/long selections of uptempo mx and resounding shouting anncr, sounded FF. FF annct given at 0259 then s/off in EE "You're listening to R. Caribbean International... join us tomorrow morning at 5:30". Anthem, then off. (Hayes)  
846 AUSTRALIA 2CY Canberra weak w/ABC nx and mentions of Australia 1107 2/26. Tarawa off. (Tomer)  
846 TARAWA Betio fair w/native woman 0750 2/22. (Tomer)  
854 PERU Lima OAX4A at fair level w/solid audio (female vocals) 0655 2/12. (Thomas)  
860 BRAZIL Rio de Janeiro R. Mundial xlnt w/PP and EE disco mx, man in PP 0724-0731 2/26. (DeLorenzo)  
860 CUBA R. Reloj 0002-0010 2/27 fair w/SS nx. (Krueger)  
864 COOK ISLANDS (tentative) Rarotonga ZK22C possibly the ultraweak Polynesian sounding talk noted at 0830 2/26; talk gone by 0835 but carrier remained on, fitting in w/their 0834 sked s/off. (Tomer)  
870 CUBA R. Progreso 0330. Nightly since 2/13 //880. Definitely new outtet, Chuck. Usually very good w/WWL nulled. (Krueger)  
873 JAPAN JOGB Kumamoto weak w/JJ talk 1110 2/26. (Tomer)  
880 GUATEMALA TGJ weak u/KRVN 0457 2/9 w/Nuevo Mundo ID, mention of Guatemala, LA mx. (Tomer)  
882 AUSTRALIA 4BH Brisbane weak w/EXL at 1150 2/26. (Tomer)  
891 AUSTRALIA SAN Adelaide weak/fair w/jazz 1112 2/26. (Tomer)  
891 FIJI Lautoka xlnt sig w/EE talk 0755 2/22. (Tomer)  
954 JAPAN JOKR Tokyo fair sig 1155 2/26 w/c1 mx, JJ anncrs. (Tomer)  
965 UNID very weak carrier, no audio 0425 2/16. Several possible. (Thomas)  
1000 CUBA R. Guama 0435-0458 2/26. SS ID, then c1 mx pgm. Good w/WCFL nulled on TRF. (Krueger)  
1005 COLOMBIA HJJR Neiva assumed source of Latin mx 0745 2/22. (Tomer)  
1008 JAPAN JOBR Osaka mixing w/2D, good sig 1102 2/26 w/JJ talk. (Tomer)  
1008 NEW ZEALAND 1ZD Tauranga good sig 1102 2/26 w/RNZ news. (Tomer)  
1017 TONGA Nuku alofa A32 strong carrier 0715 2/28; audio weak w/native talk. (Tomer)  
1026 SOLOMON ISLANDS VQO Honiara ultraloud, totally dominant signal with native man talking 0805 2/26; regional wx in alternating EE and pidgin at 0855. (Tomer)  
1034 PORTUGAL Porto Alto fair to good w/man and woman in PP, flute interlude then more talk; somewhat cobbled up by bucks/ot from nulled WBZ 0027 2/21. 4VEC off. (Connelly)  
1035 NEW ZEALAND 2ZB Wellington fair w/pop mx 0755 2/22. (Tomer)  
1044 MOROCCO Sebaa-Aioun to loud peaks w/offbeat mx blending AA mx w/science fiction movie rock 0030 2/21. (Connelly)  
1053 ENGLAND BBC fair peaks in heavy WHN slop; man and woman in EE w/discussion pgm 0023 2/21. (Connelly)  
1053 JAPAN JOAR Nagoya good sig 1235 2/26 w/JJ MoR vocals and talk. (Tomer)  
1061 PORTUGAL Norte fair in het sandwich w/1060 and 1062; opera mx 0022 2/21. (Connelly)  
1098 MARSHALL ISLANDS WSZO weak 2/22 0820 w/native pgm. (Tomer)  
1110 CUBA R. Angulo 0015-0021 2/27 in SS o/WBT. Don't know which is worse. (Krueger) Listening to a Cuban ranks over only listening to your houseplants grow-CH  
1134 JAPAN JOQR Tokyo fair ;240 2/26 w/2 men talking in JJ. (Tomer)  
1143 UNID weakie 1035 2/26 sounded like JJ; possibly JOBR. (Tomer)  
1179 JAPAN JOOR Osaka very weak w/JJ talk 1225 2/26. (Tomer)  
1200 COLOMBIA HJNF R. Super, Cali good w/ID, SS vocal o/u unk LA 0644 2/26. YVOZ normally dominant here. (DeLorenzo)

- 1240 BAHAMAS ZNS2 Freeport 0615 2/23 at pest level w/instrumental mx // 1540. (Baskind)
- 1287 CZECHOSLOVAKIA Praha-Melnik fair w/cl mx o/SAH 0038 2/21. (Connelly)
- 1314 UNID weak TP carrier 1040 2/26. (Tomer)
- 1365 HONDURAS Danli HRTR almost good w/female SS vocal 0830 2/27. (Thomas)
- 1386 UNID super weak sig 1040 2/26 sounded like EE talk; perhaps was 5AA, Adelaide. (Tomer)
- 1404 UNID 2 carriers here mixing; SAH about 3 Hz, audio murky, France/Guinea suspected, 0507 2/24. (Connelly)
- 1420 VENEZUELA YVOF 1035 2/8 doorbell sounds, echoed ID's, sports pgm. (Baskind)
- 1422 WEST GERMANY Saarbrucken to fair peaks w/mx and interspersed GG talk, then big band GG march 0500-0502 2/25. (Connelly)
- 1458 UNID probably Albania-s/off w/march mx 0459 and carrier off at 0500 2/25. (Connelly) Was it "Internationale"?? CH
- 1467 MONACO Monte Carlo fair to good w/man in SS who gave Radio Trans-mundial ID, then he wished all "Buenos Noches". Music box IS followed, then carrier went off 0000-0001 2/21. Fair to good w/woman in GG, way better than 1593, 0505 2/24. (Connelly)
- 1476 SPAIN (not sure of city) SS'er dominant w/disco mx, then SS song w/Elvis Presley typ- vocal 0456 2/25. (Connelly) Pardon me if I'm wrong, but I believe there are no Spaniards here anymore. I seem to recall that they all moved to other channels, per the Spain list published in IDXD a month or so ago. CH
- 1480 HONDURAS HROC R. Bahia 0255 2/1 w/mwntion of Guatemala, 3 ID's, beginning of marimba mx and gone. (Baskind)
- 1494 FRANCE Bastia running TT (as was 1557), atop SAH, traces of male Chorus, possibly Russian, on second stn way under, 0541 2/25. (Con)
- 1557 FRANCE Nice poor in sloop w/Slavic sounding talk 0447 2/25. Noted w/TT 0541 2/25. (Connelly)
- 1566 SOUTH KOREA Jeju HLDA good signal w/JJ pgm 1003 2/26. This stn is often hrd w/loud sigs, so may be a good bet for inland reception. (Tomer) Gene Martin in Denver says the same thing in DXWW-it's easily the easiest Asian for him-CH
- 1575 ITALY Bari RAI fair w/man and woman in II, light classical mx 0513-0520, 2/26; CKLM splash. (DeLorenzo)
- 1593 WEST GERMANY Langenberg xint w/GG nx and wx, then Brahms Lullaby IS and Westdeutscher Rundfunk ID 0503-0505 2/25. (Connelly)

And mercifully, I reach the end. Mercifully is indeed the word to choose when it's 2:30 AM. One of these days I'll learn not to hold the column to the last possible moment waiting for a flood of reports.... Recently an NRC'er sent me some info but would not divulge the source. Some of it was not run because I make it a policy never to print info if the source is not identified, because: (1) credit should be given if the info is from another organization, and (2) we have a right to know who to hold responsible for the info, should it be erroneous. Also, some info comes from copyrighted sources and it would be illegal for me to use it as such. Forewarned is fair warned.... Conditions seem to have declined precipitously from poor to pitiful. No activity here from Europe, Africa, LA, or DU. My religious checks of the band around 1000 GMT have yet to reveal any carriers from the DU area except 1548 back in November. Not a trace of 738, 819, 882, 1017, etc. Tarawa did appear briefly one night but it wasn't even worth taping. My beverages were all broken in a windstorm last week; I think I'll just let them stay that way.... I'm having more fun playing around with some LSI frequency counter chips than DX'ing.... Per the March issue of 73 the Gilbert Islands will become independent in July and change name. End of miscellanea, end of column, time to sleep.

Chris Baskind	Pascagoula, Miss.	TRF
Mark Connelly	Arlington, Mass.	R390A, MW1
Marc DeLorenzo	Centerville, Mass.	HQ100, SM1
Harry Hayes	Gouldsboro, Pa.	TRF
Terry Krueger	Casselberry, Fla.	Kenwood QR666, TRF, 80' and 65' LW's
Gerry Thomas	Pensacola, Fla.	FRG7 modified, bix loop, digital dial
Randy Tomer	McKinleyville, Ca.	HQ180A, shortwire, mini-Beverage

**DOMINICA BROADCASTING CORPORATION**  
RADIO AND TELEVISION SERVICES

## ATMOSPHERIC AND GALACTIC NOISE IN THE BCB

Dallas Lankford © 1979

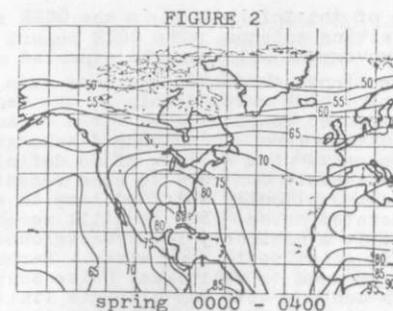
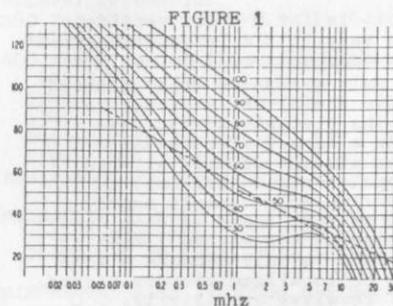
This article is based on Hyder's excellent discussion [1] of atmospheric and galactic noise for frequencies above 1800 khz. We also use information in the 1964 CCIR report [2]. The CCIR report has graphs like figures 1 and 2 below from which the expected values of the average atmospheric and galactic noise power can be computed for each of the four seasons and each four hour segment of the day through the frequency range of 10 Hz to 100 mhz. Because the spring 0000 - 0400 graph is typical of night time noise in the BCB, we have shown a part of that world map of expected noise power for 1 mhz in figure 2 below. The units of the contours in figure 2 are in db above  $kT_0b$  (which will be explained in more detail below). Figure 1 allows one to compute the expected value of noise power for frequencies other than 1 mhz. For example, in the midwest near Chicago, the noise power at 1 mhz is 80 db above  $kT_0b$ . Thus, by figure 1, the noise power at 1.6 mhz is 75 db above  $kT_0b$  and at 0.54 mhz is 90 db above  $kT_0b$ .

In figure 1, we have deleted the part above 30 mhz, and the parts above 130 db and below 10 db. Use of the interpolation curves has been illustrated above. There are also two broken lines. The one to the right is galactic noise. The one to the left is man made noise. In any case, the minimal noise power one can expect is galactic noise, which is about 58 db at 540 khz and 47 db at 1.6 mhz.

In figure 2, we have deleted the southern hemisphere, the part west of Hawaii and Alaska, and the part east of the Mediterranean. The contours on the graph are noise power curves at 1 mhz in db above  $kT_0b$ . Their use has been indicated above.

Several general comments can be made about the noise power based on the graphs in the CCIR report.

- (1) Noise levels are generally higher at night than in the day.
- (2) Noise levels are generally higher in the summer than in winter.
- (3) Noise levels generally decrease as one gets further from the equator.
- (4) Noise levels are generally higher at lower frequencies.
- (5) Galactic noise is the ultimate minimum in noise power.



One of the most interesting questions considered by Hyder is how much receiver sensitivity is really necessary. Although his discussion concerns the 1.8 - 30 mhz range, many of his comments and conclusions (which we reproduce below) are relevant to the BCB.

Editor's Note: This article is solely the property of the author and is used in DX News with permission. Further reproduction without written permission of the author is prohibited.

Any resistance has a thermal noise power, denoted  $P_t$ , that is independent of anything but the temperature, and is given by  $P_t = kTb$  watts, where  $k$  is Boltzman's constant,  $1.38E-23$  ( $E+n$  denotes 10 to the  $n$  power),  $T$  is the temperature in degrees Kelvin, and  $b$  is the bandwidth in hertz. In particular, the above equation holds for the radiation resistance of an antenna. For a 2.1 khz bandwidth,  $P_t = (4E-21)(2.1E+3) = 8.4E-18$  watts at 290 Kelvin (63 F). In the CCIR report,  $P_t$  is computed for 288 Kelvin (the difference with our value is negligible), thus  $8.4E-18$  watts is the  $kT_b$  mentioned above.

Let us assume we have a hypothetical receiver with a sensitivity of  $0.5 \mu V$  into 50 ohms at 2.1 khz bandwidth. The thermal noise voltage is  $\sqrt{P_t R} = \sqrt{(8.4E-18)(50)} = 0.02 \mu V$ . In order to compare this voltage with receiver sensitivity, we must convert it from a voltage in parallel with a 50 ohm source to a voltage in series with a 50 ohm source, which we do by multiplying by two. Thus the signal to thermal noise ratio for a  $0.5 \mu V$  signal is  $20 \log(0.5/0.04) = 22$  db. The receiver is rated as having a 10 db signal to noise ratio, so the receiver has a  $22 - 10 = 12$  db noise figure, which we denote  $f$ . The receiver generated noise power, denoted  $P_r$ , can be computed by the formula  $f = 10 \log((P_r + P_t)/8.4E-18)$ . The receiver generated noise power for our hypothetical receiver is thus  $P_r = 1.26E-16$ .

We now calculate what signal levels are required to produce both 0 db and 10 db signal to noise ratios at both ends of the ECB, assuming galactic noise of 58 db at 540 khz and 47 db at 1.6 mhz. We do only the calculations for a 10 db S/N ratio at 540 khz. Galactic noise power, denoted  $P_g$ , is  $(8.4E-18)(E+5.8) = 5.3E-12$  watts. The required signal power is  $10(P_g + P_t + P_r) = 53E-12$ . It should be noted that thermal and receiver noise power are negligible in this calculation, but not in general. The equivalent signal voltage is  $\sqrt{4PR} = 103 \mu V$ . The other calculations are similar, and the final results are given in the table below.

S/N	540 khz	1.6 mhz
0 db	32 $\mu V$	9 $\mu V$
10 db	103 $\mu V$	29 $\mu V$

From these figures, it is apparent that exceptional sensitivity is not necessary for weak signal reception in the ECB. In fact, it can be shown that a hypothetical 2.1 khz bandwidth receiver with a  $10 \mu V$  sensitivity into 50 ohms requires a  $31 \mu V$  signal for a 10 db S/N ratio, and a  $10 \mu V$  signal for a 0 db S/N ratio at 1.6 mhz. Thus there is virtually no difference between a  $0.5 \mu V$  sensitivity receiver and a  $10 \mu V$  sensitivity receiver when used on the ECB. Evidentially these figures hold up in practice, since recent Collins receivers are rated at  $10 \mu V$  for the ECB.

All of the information in the CCIR report is for a short vertical receiving antenna. The CCIR report has very little information about improvements which can be expected as a consequence of using directional antennas. We have seen it said elsewhere that balanced loops (which respond only to the magnetic field) are superior to unbalanced loops or long wires because the electromagnetic wave resulting from a lightning discharge has a larger electrostatic component. But we know of no definitive studies of this alleged phenomenon. Contrary to some recent popular misconceptions, an electrostatically shielded loop is effective only against nearby generated noise. But it still seems to us that loops we have used exhibit a noticeably lower background noise in subjective listening tests relative to long wires. Perhaps this is only because a loop can be used to null local noise sources or localized thunder storms. When dealing with the ultimate limit of receiver sensitivity, galactic noise, we expect that there is no significant difference between a loop and a short vertical antenna. On the other hand, a beverage antenna may give a significant reduction in atmospheric and galactic noise, judging by user reports. So when using beverages, receiver sensitivities on the order of  $1 \mu V$  may be necessary for weak signal reception in the ECB.

REFERENCES [1] H. R. Hyder Atmospheric Noise and Receiver Sensitivity, QST (Nov. 1969), 32 - 36.  
[2] World Distribution and Characteristics of Atmospheric Radio Noise, International Radio Consultative Committee, C.C.I.R., Documents of the Xth Plenary Assembly, Geneva, 1963, Report 322, Published by the International Telecommunication Union, Geneva, 1964.

## BASEBALL LIST SUPPLEMENT

Since it takes about 7 pages to type the whole 1979 major-league baseball list, and since the 1978 list appeared in the 5/15/78 DKN (pp. 31-37), with an updater in the 6/12/78 DKN (pp. 28-29), I thought it'd be simpler to print just the changes for 1979 and let each of you amend your 5/15/78 DKN list. If any of you know of further changes, please send them to me, Bill Hardy, 2301 Pacific Ave., Aberdeen, WA, 98520, as soon as possible. I should add that some teams have not yet sent me their 1979 lists, so further changes are still possible.

Symbols: d- Daytime station (no FM simulcast)  
d+ Daytime station with FM simulcast  
+ Fulltime station with FM simulcast  
Flagship stations are underlined. Other symbols explained en route.

### AMERICAN LEAGUE CHANGES:

BALTIMORE ORIOLES ... Flagship changes to WCBM-680. Will have an extensive net, but no other details are known so far.

BOSTON RED SOX ... New announcers: Ken Coleman, Rico Petrocelli. (Incidentally, I won't attempt to update sponsor info for 1979. Anyone interested in 1979 sponsors may obtain a list from me free for an SASE.--BH.)

DELETE from 1978 list: 790-WRUM, 910-WABI, 950-WAGM, 1240-WCOU, 1450-WXIV.

CALL CHANGE from 1978 listing: 1510 WITS Boston, MA (ex-WMEX) ADD "+" SIGN: 1230-WQDY/WTSV/WERI, 1240-WHAI, 1340-WFAU/WHOU, 1370-WDEA, 1380-WKTT, 1400-WIDE, 1450-WLKN/WRKD, 1490-WTVL.

ADD these new stations for 1979:

610 WIOD Miami, FL  
930 WNNH Rochester NH  
1330 WHET Waltham, MA  
1390 +WPLM Plymouth, MA  
1420 d-WWSR St. Albans, VT  
1490 +WHAV Haverhill, MA  
WMRC Milford, MA

Additional FM's now total 6.

DETROIT TIGERS ...

DELETE: 1490-WTIQ.

ADD "+" SIGN: 1380-WPLB, 1450-WKLA, 1480-WIOS.

ADD these new stations for 1979:

920 d-WMPL Hancock, MI  
1240 +WCEY Cheboygan, MI  
1340 WMTE Manistee, MI  
1460 d-WBRN Big Rapids, MI  
1590 d-WGRY Grayling, MI

Additional FM's now total 5.

MILWAUKEE BREWERS ... Drop Mike Hegan from announcers. STATION LINEUP IS IDENTICAL TO 1978 LIST! (miracle!)

MINNESOTA TWINS ... Drop Sid Hartman and Rod Carew from announcers (Carew got traded, hi). 1979 net not yet firmed up.

OAKLAND A'S ... Radio coverage moved to KNEW-910 Oakland, CA, in mid-1978. The team's plans for 1979 are uncertain at this writing.

SEATTLE MARINERS ... Drop Bob Robertson pre-game show.

DELETE: 590-KHQ, 790-KGMI, 1230-KVAS/KTDO, 1280-KIT, 1340-KAIN, 1450-KFLS, 1590-KTIL. (continued next column)

(Seattle, cont.)

ADD these new stations for 1979:  
1490 +KENE Toppenish, WA  
1510 KGA Spokane, WA  
Additional FM's total 2.

TORONTO BLUE JAYS ...

DELETE: 1110-CKJD.

ADD these new stations for 1979:

1070 CHOK Sarnia, ON  
1120 d-WWOL Buffalo, NY  
1560 d-WWBK Brockport, NY (NOTE: WWBK has a CP to go Fulltime on 1590 kHz)

Still no FM stations.

For anyone wondering, there is no French-language radio play-by-play for the Blue Jays.

### NATIONAL LEAGUE CHANGES:

CINCINNATI REDS ...

DELETE: 1300-WMVO, 1430-WIRE, 1450-WLAF.

DELETE "+" SIGN: 1480-WTHI.

ADD "+" SIGN: 1550-WCTW.

ADD these new stations for 1979:

1450 WLAR Athens, TN  
1520 WSVL Shelbyville, IN

Additional FM's now total 36.

TYPO TO CORRECT:

730 d-WFMW Madisonville, KY

HOUSTON ASTROS ... NEW NET LISTING:

560 KLVI Beaumont, TX  
630 KMAC San Antonio, TX  
710 KURV Edinburg, TX  
790 KOSY Texarkana, AR  
950 KPRC Houston, TX  
980 d-KFRD Rosenberg-Richmond, TX  
1150 WJBO Baton Rouge, LA  
\*WTAW College Station, TX  
(\*--daytime, but with CP to go fulltime)  
1230 KSIX Corpus Christi, TX  
KWTX Waco, TX  
1270 KIOX Bay City, TX  
1280 WGSO New Orleans, LA  
1350 d-KTXJ Jasper, TX  
1410 KNAL Victoria, TX  
(plus 10 FM's)

For the record, there is no Spanish play-by-play on radio for the Astros.

LOS ANGELES DODGERS ...

Spanish: Per the Dodgers, the Spanish radio play-by-play will move to KTNQ-1020 Los Angeles, CA, this year! (KTNQ is a high-energy rock station that is being sold to the owners of KLVE-FM and the operators of XEGM-950, if the FCC approves. Announcers will be same as 1978.)

## MONTREAL EXPOS ...

English:  
ADD this new station for 1979:  
930 CFBC St. John, NB  
Additional FM's total 2.

French:  
DELETE: 630-GJLA, 1340-CHAD,  
1400-CKRV.

ADD these new stations for 1979:  
580 CHLC Hauterive, QU  
620 CFRP Forestville, QU  
710 CIPC Port-Cartier, QU  
Still no FM stations.

PHILADELPHIA PHILLIES ... Drop  
Robin Roberts from announcers.  
DELETE: 800-WCHA, 1350-WHWH,  
1440-WCDL.

CALL CHANGE:  
1450 WIIN Atlantic City, NJ  
(ex-WPPG)

ADD "+" SIGN: 1440-WMVB.  
ADD these new stations for 1979:  
1070 WKOK Sunbury, PA  
1380 d-WAYZ Waynesboro, PA  
1420 WCOJ Coatesville, PA  
1490 WECB Levittown, PA  
1580 d+WRDI Hammonton, NJ  
1600 d+WPDC Elizabethtown, PA  
Additional FM's total 3.

Credits: Thanks to Joe Fela, Jim Hopkins, and Albert Lobel, plus the many  
teams and flagship stations that contributed their station lists. (BH, 3/7/79)

## CAPE COD GROUNDWAVE STUDY

by Mark Connelly -7 Trowbridge Path - West Yarmouth, MA. 02673

Cape Cod, the eastern extension of Massachusetts, has long been known as a prime DX location because of waterpaths in nearly every direction. Many people visit this summer holiday resort famed for its beaches, dunes, and pine woods. Many come and enjoy the excellent seafood. Sailing and fishing are popular here. Among the horde of vacationers are DXers who come and experience a variety of DX unknown at their inland home locations. At night, LA & TA DX stations boom in, vying with domestics which are seldom challenged at inland sites. My recent "Musings" cover the night-time aspect of Cape Cod DX. Continuing IDXD reports by DeLorenzo, Cooper, Barstow, & myself add further data. As summer approaches, the need for a daytime analysis becomes apparent; this will prepare the visiting DXer with a working plan. Some coastal groundwave studies previously published include Mike Levintow's Cape Hatteras report & my Nova Scotia report in DX News and Charles Taylor's Bermuda study in DX Monitor. Cape Cod offers regular daytime reception of stations from Virginia (e. g. WTAR) to Nova Scotia (e. g. CHNS). As noted at the end of the article, Beverage users might be able to extend the range of groundwave to the entire eastern seaboard from Cuba to Newfoundland. Now - on to the DX!

## 540 to 590 kHz.

540: WLIX o/WDMV 550: WGNG o/CFNB, both o/WDEV 560: WGAN strong, way o/WHYN/WFIL 570: WMCA good, way o/CJEM 580: WTAG o/CHLC 590: WEEI

## 600 to 690 kHz.

600: WICC/WFST 610: WGIR o/WIP, both o/CHNC 620: WLBZ/WVJN o/WVMT  
630: WPRO way o/CFCY 640: weak Nova Scotia LPRT's 660: WNBC loud  
680: WRKO strong; CFDR might be possible in tight null (Orleans area)  
690: CBF o/WADS

## ST. LOUIS CARDINALS ...

This listing is almost impossible to obtain, so we need **HELP!!** Anyone with data on stations carrying Cardinals baseball in 1978 or planning to do so in 1979 is asked to please send this info in as soon as possible. Besides KMOX-1120, the Cardinals were heard on KAYL-990, KILR-1070, and WMED-1470 in 1978.

## SAN DIEGO PADRES ...

English: Flagship will change to **KFMB-760** San Diego, CA. Further details will be available later.  
Spanish: **XEXX-1420** Tijuana, BCN, Mexico will air home games, plus any games at Los Angeles against the Dodgers.

SAN FRANCISCO GIANTS ... NEW LISTING:  
Announcers: Lindsey Nelson  
Hank Greenwald

620 d-KWSD Mount Shasta, CA  
680 **KNBR San Francisco, CA**  
980 KINS Eureka, CA  
1400 KQMS Redding, CA  
1430 KARM Fresno, CA  
(plus 2 FM's)

## 700 to 790 kHz.

710: WOR good 730: WJTO o/WACE 740: WCAS/WGSM 750: WHEB way o/WBMD  
760: residual WJR skip 770: WABC 780: weak WABS 790: WEAN o/WTAR,  
both o/WRUM

## 800 to 890 kHz.

800: WCCM o/WMTW, both o/CHRC 810: WGY o/WYRE/CJVA 830: WNYC fair  
840: WRYM poor 850: WHDH strong - WRAP possible in tight null om Martha's  
Vineyard 860: CBH/WTEL, both weak 880: WCBS loud

## 900 to 990 kHz.

900: WKXA o/WOTW, both o/WJWL 910: WABI o/WRCQ 920: WJAR way o/CJCH  
930: WNNH o/CFBC/WPAT 940: CBM weak 950: WROL strong 960: jumble w/  
CHNS/WFGL/WELI/WBOC 970: WCSH loud o/WWDJ 980: WCAP o/WSUB  
990: WLKW good o/WZZD/WNTY/ Nova Scotia LPRT's

## 1000 to 1090 kHz.

1000: CKBW/WLMS, both weak 1010: WINS loud 1020: trace of KDKA  
1030: WBZ strong 1050: WHN good, way o/WBNC 1060: WGTR o/CJRP/KY  
1070: CBA o/WKMB/WKDR, all weak 1080: WTIC fair 1090 WILD loud, way  
o/WBAL/CHRS

## 1100 to 1190 kHz.

1100: WHLI fair 1110: WHIM/WVNH 1120: WUST in noise 1130: WNEW good  
1140: CJTR o/possible WRVA/CBI/Nova Scotia LPRT's, all weak 1150: WHUE  
o/CHSJ, both o/WSKW/WCNX/WDEL 1170: WVLC local, way o/WJMQ/WHLW  
1180: trace of WHAM 1190: WLIB/WKOX, both o/CHTN/WANN

## 1200 to 1290 kHz.

1210: WCAU weak 1220: WSME o/WRIB, both o/WOMN/CKCW/others 1230: WESX  
good, o/WERI 1240: WOCC local - if WOCC is off: WCOU/WGBB/WWON & others  
1250: WKBR/WGUY 1260: WEZE good, well o/CHI/WMMM 1270: WTSN o/WSPR/CJCB/  
WOKT 1280: WABK/WADO o/WEIM 1290: WICE o/WGLI/WKNE

## 1300 to 1390 kHz.

1300: WJDA o/WAVZ 1310: WLOB o/WICH/WORC/WGH 1320: WARA way o/WATR  
1330: WHEE o/WEVD 1340: WNBH/WMID o/WFAU/WGAW/CJLS/WNHC 1350: WLNH  
fair o/WHWH/WNLK/WHNE/others 1360: WNSR good, way o/WDRG 1370: WFEA/  
WKFD/WDEA/WALK 1380: WBEX/WBNX 1390: WPLM o/WRIV

## 1400 to 1490 kHz.

1400: WIDE/WOND/WALE/WLLH o/WMCS 1410: WOKW o/WPOP, both o/WDOV/WHTG  
1420: WBSM good o/WASR, both o/WLIS/CKDY 1430: WKKS good, well o/WNJR  
1440: WJBJ o/WFTQ, both way o/WNYG/WBIS 1450: WFPG/WRKD o/WKRI/WKXL  
1460: WBET way o/WPRW/WVOX/others 1470: WNNP way o/WLAM, both o/WSRO/WMMW  
1480: WSAR strong, way o/WJIT 1490: WPOR/WUSS o/WHAV

## 1500 to 1690 kHz.

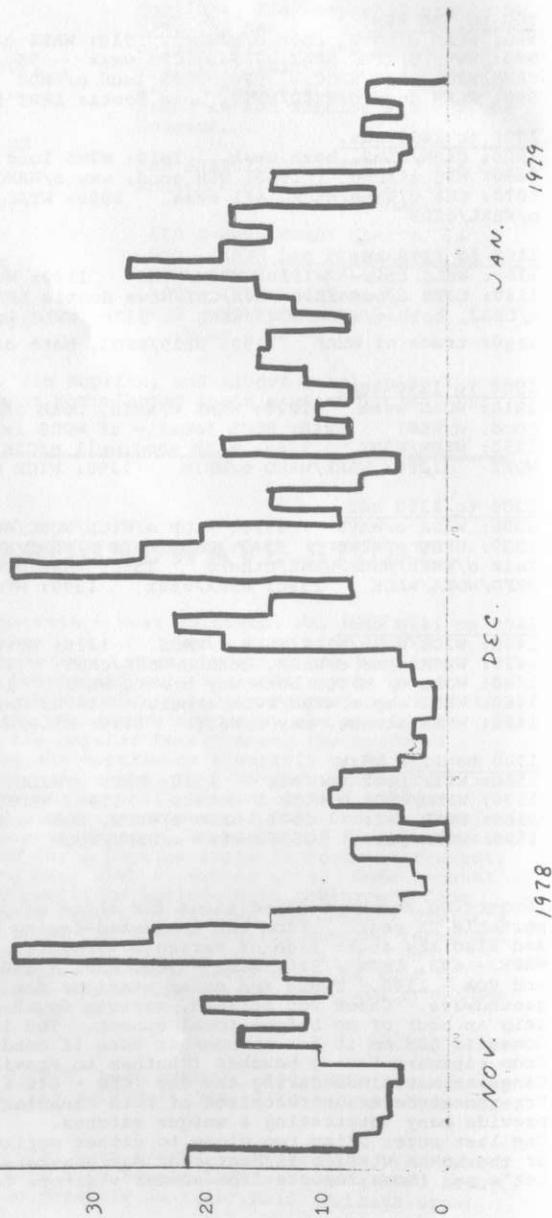
1500: WFIF poor to fair 1510: WITS o/WNLC 1520: WTBE/WIBG, both weak  
1530: WPNO/WDJZ o/WOBR & others 1540: WADK/WKXR 1550: WNTN o/WVAB/WMLB  
1560: WQXR fair 1570: WMLO o/WRCM, both o/WPEP & residual CKLM skywave  
1580: WYFA poor 1590: WARV o/WSMN/WQQW 1600: WUNR o/WLNG, both o/WWRL

Suggested Beverage DXpeditions for those of you with a lot of wire and good portable DX gear: From the southward-facing beaches (Falmouth to Chatham, and also the south side of Martha's Vineyard), try for WGTO - 540, CMQ - 640, WAPE - 690, CMGN - 720, WCPS - 760, WHNC - 890, ZFB - 960, WRAR/WRNJ - 1000, and VOA - 1180. These and other stations far to the south may be audible on groundwave. Check for African, eastern South American, & Caribbean early skip an hour or so before local sunset. The international DX will have little domestic QRM on it for an hour or more if conditions are reasonable. From eastward-facing beaches (Chatham to Provincetown) you should DX the Canadian Maritimes during the day (CBN - 640 & numerous LPRT's are good targets.) Pre-sunset beverage reception of both Canadians & early-skip TA's should provide many interesting & unique catches. One last note: DXing too close to either maritime CW station WCC in Chatham or the LORAN station in Nantucket may generate undesired spurs in the receiver. Let's see those reports from summer visitors to Cape Cod!

# AFR GRAPH

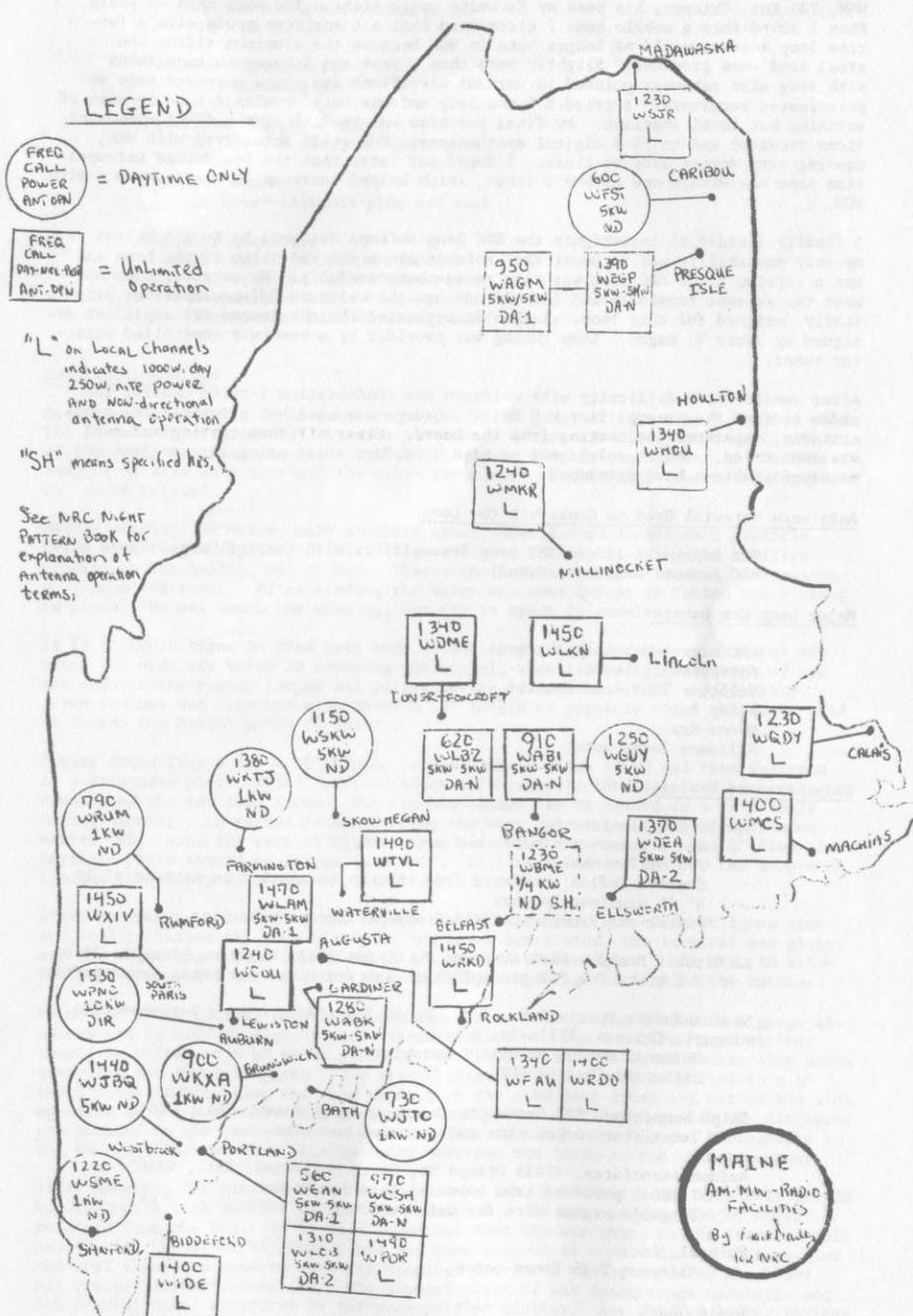
RUSSELL J. EDMUNDS

This graph shows the daily variations in Afr, the Fredericksburg (VA) index of geomagnetic activity in the earth's magnetic field. High values (above 20) indicate the medium wave signals in upper latitude paths will likely be absorbed, thus resulting in "auroral conditions", with signals from the South and from local stations predominating due to this absorption of the more northerly signals. Low values over a period of time indicate a likelihood of more receptions on the higher-latitude paths--- more, and more northerly TA's and TP's. Several days of low values following higher ones are needed for conditions to return to "normal", due to residual absorption. Long periods of extremely low values (6 or less) are necessary to raise the possibility of good high-latitude conditions throughout the entire MW band, although this is not the only requirement. For additional information on the use of the Afr and related indices as a DX tool, consult the NRC Reprints List for relevant articles.



RECENTLY TUNED DIRECTIONAL LOOP ANTENNA

# MAINE STATIONS



# REMOTELY TUNED DIRECTIONAL LOOP ANTENNA

E. L. Cummins

WGN, 720 KHz, Chicago, has been my favorite radio station for more than 40 years. When I moved into a mobile home I discovered that a transistor radio with a ferrite loop antenna would no longer tune in WGN because the aluminum siding and steel roof were grounded. Slightly more than a year ago I began to experiment with long wire antennas pointed in various directions and using more and more sophisticated receivers. I tried a Dymec loop antenna but I couldn't tune in much of anything but local stations. My final purchase was an R. L. Drake SPR-4 communications receiver and an FS-4 digital synthesizer. WGN still interfered with WGN, causing very severe slop at times. I found out later that the Des Moines metropolitan area was within one of WGN's lobes, which helped increase the interference with WGN.

I finally decided to investigate the NRC loop antenna designed by Gordon Nelson. My only possibility was to mount this antenna above the roof line of the home and use a rotator. The NRC loop was then researched carefully. My receiver does not have two antenna terminals and I could not use the balanced FET preamplifier originally designed for this loop. I then incorporated the unbalanced FET amplifier designed by James V. Hagan. Loop tuning was provided by a remotely controlled varactor tuner.

After considerable difficulty with moisture and condensation I tried coating the under side of the preamplifier P C board. Q-dope was used but extremely low temperatures separated the coating from the board. Clear silicone coating and seal was then tried, and it solved the problem. In fact since using this sealant no moisture problems have developed.

## Reference Material Used to Construct the Loop

NRC Reprint A-17 An FET Loop Preamplifier with Coaxial Output James Hagan  
NRC Antenna Reference Manual

## Major Loop Components

NRC Altazimuth Loop Antenna  
FET Preamplifier  
Varactor Tuner and Control  
Relay Box  
Meter Box  
Alliance Tenna-Rotor

## Suppliers and Devices

Newark Electronics  
Bud aluminum miniboxes and meter box  
J W Miller chokes  
Cambion Teflon insulated feed through terminals, in packets of 10  
1/2" #6 aluminum spacers  
Potter and Brumfield KT11A 5 ampere antenna switching relay

KJ Circuit Boards, Karl A. Raup, P. O. Box 8013, Orlando, Florida, 32806  
P C board for FET preamplifier Ask for board for Hagan preamplifier

Semiconductor Specialists, Inc., P. O. Box 66125, O'Hare International Airport, Chicago, Illinois, 60666  
Motorola MV1403 or MV1404 varactor  
Siliconix 2N4416A FET

Ralph Sanserino, 822 Crane Circle, Huntington Beach, Cal., 92646  
Transistor socket pins and annealed bus wire

Amidon Associates, 12033 Otsego St, North Hollywood, Cal., 91607  
T-106-1 powdered iron toroidal form for balun  
32 gauge magnet wire for balun winding

Spiegel, Inc.  
Alliance T-45 Tenna-rotor

Radio Shack  
Trim pots, miscellaneous capacitors, resistors and terminals

Radio and Electronics Supplier  
Coaxial panel connector and coaxial connector with adapter for  
RG58 AU coaxial cable  
Coaxial cable, RG58 AU  
Vector board and Vector pins  
0-10 mA DC meter

Plastics Fabricator  
1/4" Plexiglas

Electrical Supply House  
GE RTV-108 clear silicone paste

Hardware Store  
GE clear silicone glue and seal

Wherever Available  
1 1/2" and 1" aluminum conduit  
#12 stranded copper THWN wire  
3-conductor 115V WP wire, solid copper  
2-conductor 115V WP wire, solid copper

## Construction Hints

Use three 58" lengths of 32 gauge magnet wire (31 gauge if it can be found) to wind the balun. Twist about 55", 6 turns per inch. If you can find a hand drill, it will be easy to twist the exact number of turns. Then fasten one end of the three lengths of wire in a vise and the other three ends in the drill chuck, leaving the 55" to be twisted.

Before winding the balun, make a bobbin about three inches long from a popsicle stick or a tongue depressor. Slot this bobbin at both ends. Wind the trifilar winding on the bobbin, end to end. Thread the bobbin through the core. 40 passes will equal 40 turns. After winding the balun use some Q-dope to fasten the winding in place. Do not bunch the winding, but try to space it evenly.

It is a simple thing to find both ends of the three windings. Use an ohmmeter and after the ends are bared by removing the enamel, when identified, cut each of the six ends to the proper length and solder to the PC board. A 3/4" - 6/32 brass screw and hex nut together with about a 1 1/2" length of popsicle stick should be used to fasten the balun to the PC board.

I have found that a 10" - 1 1/4" nipple screwed into a floor stand and then fastened to a 2' square piece of 3/4" plywood adequately supports the loop, and permits easy winding of the ten loop turns. The plywood square can be placed on a card table during winding. A second person feeding the wire makes winding the loop a much easier job. Wind the wire as tight as you can. The four holes in the 1/4" Plexiglas terminal plate should be larger than 1/8". It is much easier to feed the loop ends through the enlarged holes.

After completing the winding and the necessary soldering, use clear silicone glue and seal to fasten the loop wiring to the three arm plates, the terminal arm plate, and the eight spreaders, all of which are made of 1/4" Plexiglas. Be sure to allow sufficient time for the silicone to cure before mounting the loop on the rotator.

Mount the relay minibox above the varactor tuner. Two pieces of the same gauge aluminum can be used to rigidly mount these miniboxes. The varactor tuner minibox should be bolted to a 1/2" thick piece of Plexiglas which is screwed to the loop cross arm below the terminal plate. The preamplifier minibox should be bolted to a 1/4" thick piece of Plexiglas and then mounted on the same loop cross arm but on the side opposite to the varactor tuner minibox. Both pieces of Plexiglas with the miniboxes are mounted on the cross arm on opposite sides to those shown in the photographs in the NRC Antenna Manual. This somewhat shortens the leads to the varactor tuner.

After mounting the miniboxes on the loop cross arm, a 1/8" or 9/64" weep hole should be drilled in each minibox at its low point, to drain any condensation or other moisture from the box. It is very important that the miniboxes on the loop are well sealed with the clear silicone paste and then allowed to cure. Clear silicone glue and seal should be used to seal all openings for power wiring entering the boxes, all exposed solder connections, the exposed parts of the feedthrough terminals and the coaxial panel connector on the preamplifier minibox. Any exposed wiring splices should also be sealed with this silicone glue and seal.

The wooden cross arms and closet pole should be soaked in pentachlorophenol and then allowed to dry fully before final assembly of the loop. Even after this period of drying, and after the loop has been erected, it will be necessary to retighten all thumbnuts on bolts through the wood, because the sun will dry the wood.

The external connections between the feedthrough terminals of the relay box and the varactor box should be made with pieces of the three-conductor cable used for the 115V leads to the relay box. Each end of both pieces of this wire should be soldered to a feedthrough terminal. Two parallel wires between the feedthrough terminals will result. The loop ends at the terminal plate and the loop midpoint at the terminal plate should be bared. These three bared points should be connected to the feedthrough terminals and solder lug on the preamplifier minibox, using three pieces of the 115V wire previously used. The two loop ends should be bared and then soldered to the parallel wires between the varactor tuner and the relay boxes. Be sure to leave enough slack in the wiring to the preamplifier to allow the preamplifier to be lifted far enough out of the minibox so that the gain and balance pots can be adjusted during amplifier balance. The gain pot can be advanced until the amplifier can no longer be balanced. About four milliamperes is almost the maximum current drain that will permit the amplifier to be balanced.

Use Vector board and Vector pins to mount the capacitors, resistors, varactor, relays and chokes in the meter box, varactor tuner and relay box. Do not attempt to support a Vector board from the feedthrough terminals. Instead use spacers and bolts.

Two angles should be bolted to the Plexiglas center brace marked 'F' and to tilt arm 'b-2' shown on parts drawings D, E and G, FET Altazimuth loop antenna, in the NRC Antenna Reference Manual. The photographs on page 18 clearly indicate the location of the braces.

When installing the loop mounting shaft in the rotator, be sure that the rotator indicator shows S, and that the cross arm with the miniboxes points to the south. A good compass will help. Positioning the crossarm in this direction will allow the cables from the miniboxes to be taped to the loop mounting shaft (closet pole) and to the 1½" conduit forming a loop of wires and cable large enough to permit the antenna to turn 360° without the loop catching on the rotator body.

#### Loop Operation

The remotely tuned loop does not have the same capability to null stations that the altazimuth loop has. However this loop is an excellent antenna for a mobile home. I am able to null KCBC, 1390 KHz, and a 1 KW local located 1½ miles from my home, and receive KFVD, 1400 KHz, also 1 KW about 70 miles away during daylight hours. I can also receive KOEL, 950 KHz, 5 KW, about 110 miles away, during daylight hours with KIOA, 940 KHz, 10 KW, 21 miles away also broadcasting. During good evening reception KFI can be readily separated from Cuban interference on the same frequency.

If a Motorola MV1403 varactor and a 150 pF padding capacitor are used, the upper limit for sharp loop tuning is about 1550 KHz. If the MV1404 varactor is used with a 150 pF padding capacitor, the lower limit for sharp tuning is about 570 KHz. I use the MV 1404.

It is very important that the loop be shorted when not in use and during a thunder storm. Before using the loop I always check the static level with my long wire antenna. If the static is too severe, I do not use the loop. The reason for shorting the loop during a thunder storm is that lightning strokes, even if they are several miles away, can destroy the FETs if the loop is not shorted.

#### Checking the FET Preamplifier

The preamplifier can be checked out before installing on the loop. First connect the coaxial cable to the meter box and to the preamplifier. After the battery is turned on, short all three of the amplifier terminals. If the current drain is about normal, the preamplifier is O K. Now disconnect the short on the amplifier terminals. Grasp the coaxial panel connector with the right hand. Then touch each amplifier input terminal with the left hand. You should hear something on each terminal if a strong local station has been tuned in.

It is also possible to check the resistance to ground of each FET. First disconnect the coaxial cable from the amplifier. Then connect the ohmmeter of a VTVM or FETVM from each input terminal to the solder lug on the preamplifier. The resistance to ground should be more than 5M Ω for each FET. The actual resistance is not critical.

#### Drawings

Block connection diagram  
Meter Box  
Preamplifier  
Varactor tuner and control box  
Relay box

#### Acknowledgments

Gordon Nelson  
James Hagan  
Engineering Department, R. L. Drake Co.  
Karl Raup  
Dale Biermann

#### Legend

- Soldered connection unless otherwise identified
- ⊙ Hole in P C board for soldering on under side, unless otherwise identified
- On under side of P C board
- Above P C board

 0-10 milliamper meter

 Capacitor

 Choke

 Resistor with value shown

 RG 58 AU coaxial cable

 Insulated feedthrough terminal unless otherwise identified

 Coax panel connector

#### Notes

Insulated feedthrough terminals, DPDT and SPST switches milliammeter and coax panel connectors are to be mounted on front of meter box.

Vector pins and Vector board with the Vector board mounted on spacers, to mount devices in meter box and varactor tuner.

Vector board only used in relay box.

L1 and L2 = 470 μH.

L3 and L4 = 100 mH.

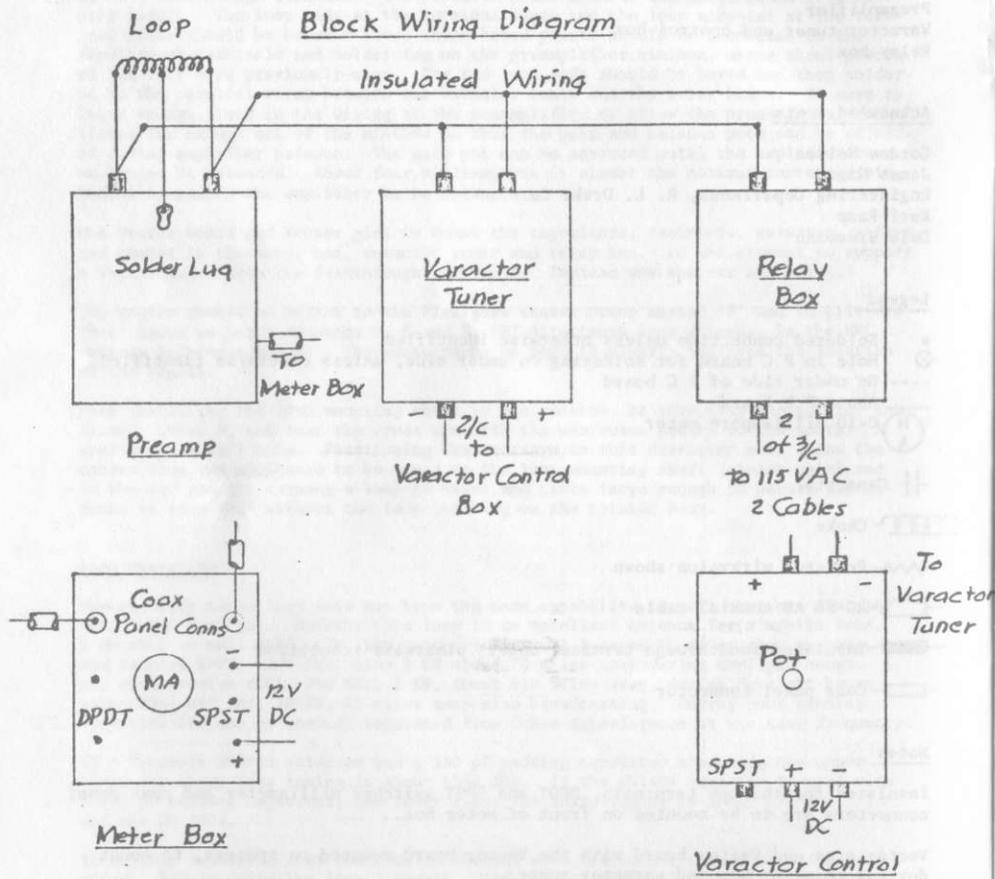
C1 to C6 = 0.1 μF.

C7 = 150 μF.

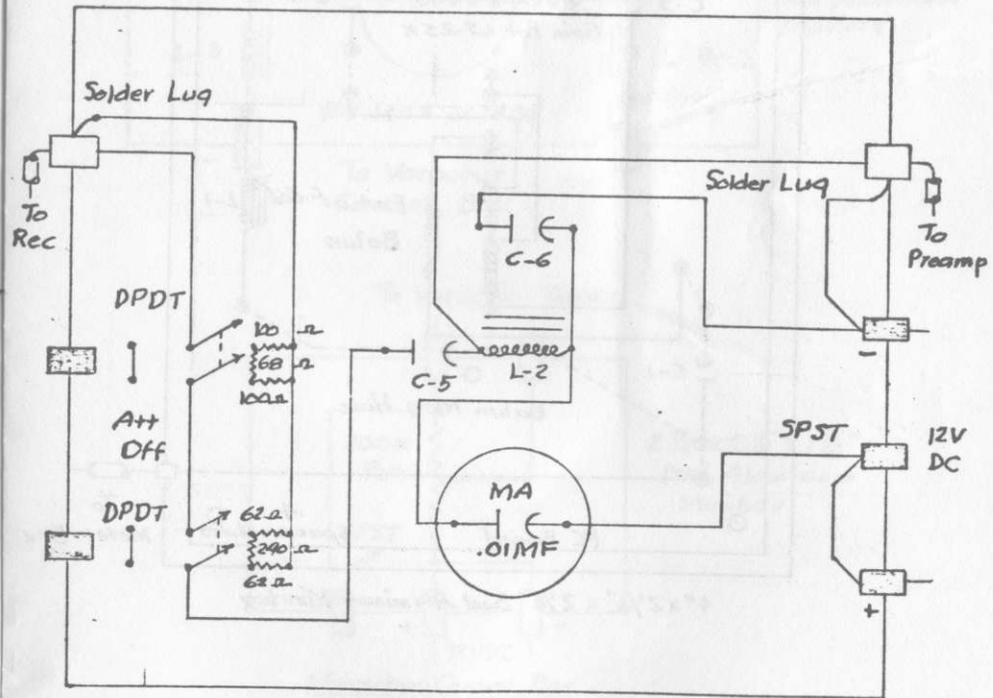
C8 and C9 = 0.1 μF, 125 VAC rated

Capacitors at AC source are 0.1 μF, 125 VAC rated

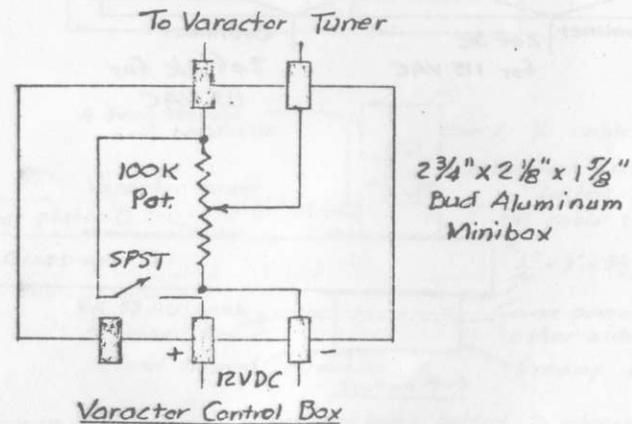
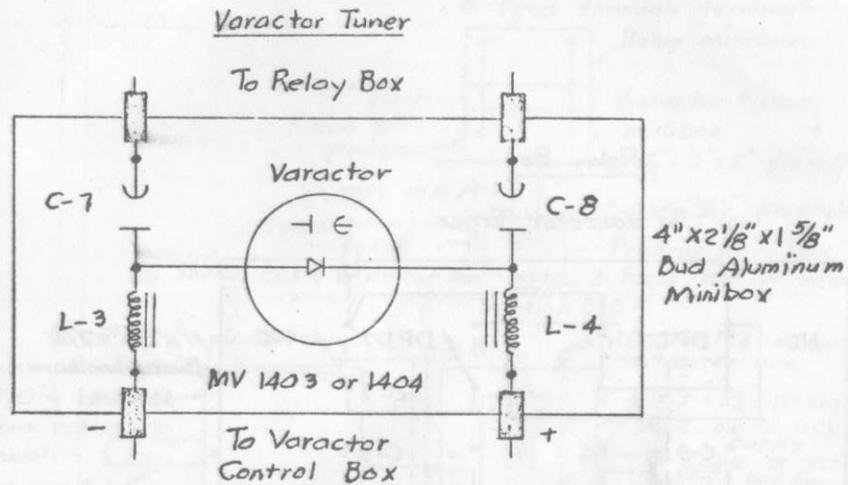
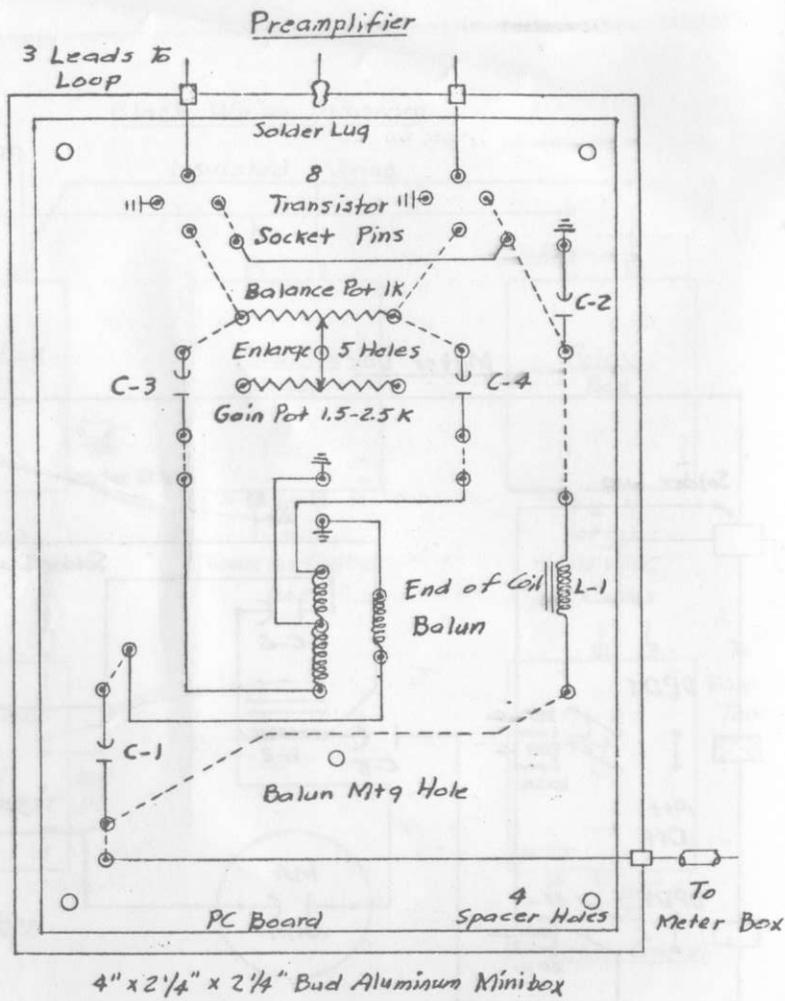
### Block Wiring Diagram



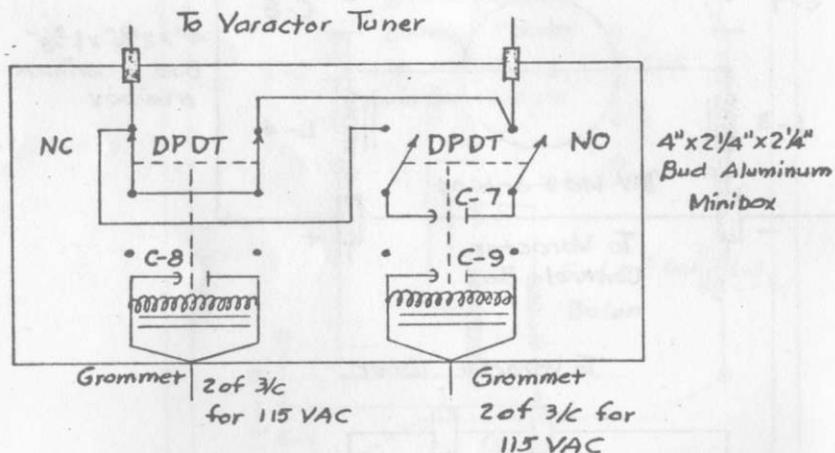
### Meter Box



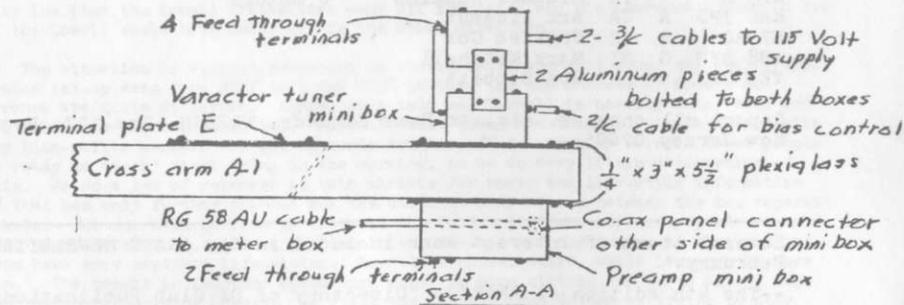
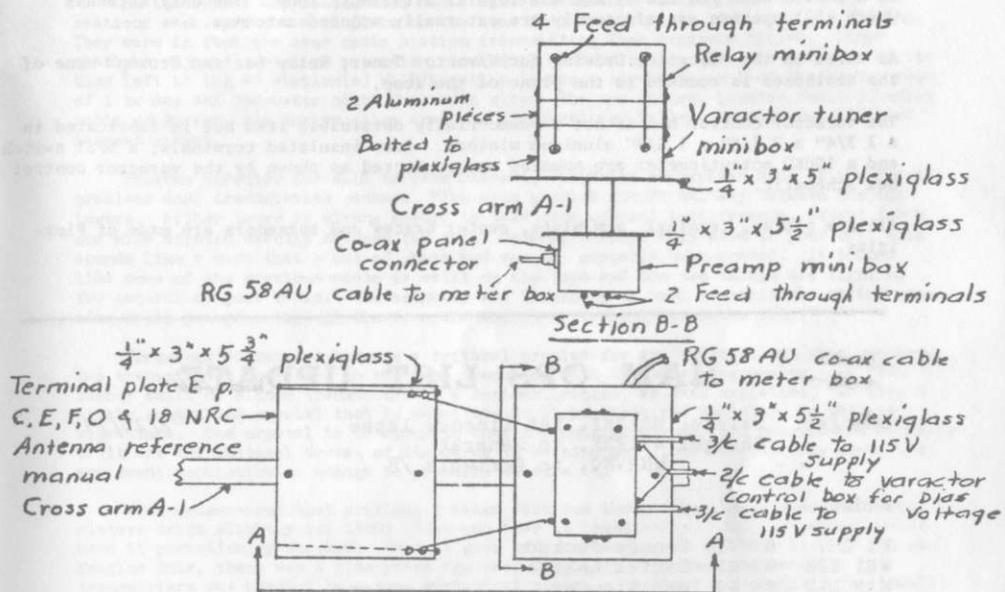
4 1/4" x 6" x 4" Bud Meter Box



Relay Box



Location Drawing for Varactor Tuner, Relay Box and Preamp



Preamp and varactor tuner mini boxes bolted to plexiglass which is screwed to cross arm A-1

Vector boards for varactor tuner and relays suspend on aluminum spacers

Preamp PC board suspended on aluminum spacers

## Addendum

This loop was tested using the same receiver and a regular altazimuth loop. Very little difference was observed between the two loops aside from slightly better nulling with the regular loop. In nearly all situations the externally mounted, varactor tuned, rotatable loop produced a stronger signal than a 75' long wire antenna. The loop also cleaned up many signals not separable with the long wire antenna.

In a mobile home you cannot use the regular altazimuth loop. The only antennas which will operate satisfactorily are externally mounted antennas.

As noted in the "Location Drawing for Varactor Tuner, Relay Box and Preamp" none of the miniboxes is mounted in the plane of the loop.

The varactor control box is not a commercially obtainable item but is fabricated in a 2 3/4" x 2 1/8" x 1 5/8" aluminum minibox. Four insulated terminals, a SPST switch and a 100K $\Omega$  potentiometer are mounted and connected as shown by the varactor control box schematic.

All arm plates, terminal arm plate, center braces and spreaders are made of Plexiglas.

## HAM OPS LIST UPDATE

Changes: Delete: WA1VKI, let license lapse  
Change: WB1FZX, to General  
WN2VNV, to Portable /8

2/20/79

## Adds:

K1 QHV	A	VT	Dennis Jackson	
WB1 ZBK	?	RI	Daniel LeVine	
KA2 DLT	T	NJ	Bob Stonier	2 meters
WA2 MOT	?	NJ	Webb Linzmayer	2 meters
WA2 WEN	G	NJ	John D. Bowker	75 meters
AB5 L	?	TX	Michael Hopkins	6 meters
WA6 IPD	A	CA	Art Rideout	
K7 AQ	E	OR	Charles Cox	
WB8 BYE	G	MI	Mark Mitchell	
VE3 CKU	?	ON	Ron Sibbitt	

Report all changes, etc. to Russ Edmunds, WB2BJH, Box 127, Boonton, New Jersey 07005.

Several items of interest were included in the ANARC NEWSLETTER for February.

--The 4th edition of ANARC's "Directory of DX Club Publications and Services" is available for 50¢ in North America, \$1 elsewhere. It's a 12-page directory of all ANARC clubs and affiliate organizations. Orders to Wayne A. Davis, ANARC Publisher, 27 Cleveland Avenue, Trenton, NJ 08609.

--Canadian postal rates go up again, from 14 to 17 cents effective April 1, 1979. On July 1 they will convert to grams instead of ounces.

## --Conventions and YAD

YAD-VI	April 15, 16	Youngstown, Ohio
ANARC	June 22, 23, 24	Minneapolis, Minnesota
WTFDA	Aug. 2, 3, 4	Baltimore, Maryland
IRCA	Aug. 24, 25, 26	Peoria, Illinois
NRC	Sept. 1, 2, 3	ST. LOUIS, MISSOURI

## TALE OF TWO CITIES

Reprinted from "R&R", December 15, 1978  
via Dave Burns

Back in the beginnings of commercial radio broadcasting in America a few radio stations operated in a manner that is unheard of today...almost. I say almost, because there is one such station left. WLLH/Lowell & Lawrence, MA is the only remaining radio station in America transmitting from two different cities!

In the 1930's WBZ/Boston also had a "slave station," WBZA/Springfield. The two stations each operated with 50 kw on the same frequency and ran identical programming. They were in fact the same radio station transmitting from separate cities. Other stations enjoyed a similar situation, including WBT/Charlotte. Now the only one of its kind left is Top 40 station(s) WLLH/Lowell & Lawrence operating on 1400 khz with a power of 1 kw day and 250 watts night from each city. The two cities, located about 30 miles north of Boston, are twelve miles apart in the Merrimack Valley, Massachusetts' third largest market.

Program Director for WLLH is Jack Diamond, who tried to explain some of the special problems dual transmission causes. "The main problem occurs halfway between the two towers. Either tower is strong enough to take care of most interference, except for a one mile stretch exactly between the two. Driving through this area in your car, WLLH sounds like a cart that's out of phase and was not properly bulk-erased. It sounds like some of the previous audio is still on the tape and the two things are fighting for control of your radio. You actually are listening to both transmitters at the same time until you pass through the area and the other transmitter takes over."

Frequency adjustment becomes a critical problem for any station, but when you have two transmitters operating on the same frequency with the same programming, any frequency shift by either transmitter is a serious problem, as Jack explained, "We have a highly controlled crystal that is sensitive to light, heat and humidity, as well as vibrations. The crystal is so accurate that the only people who can measure the accuracy of it are the National Bureau of Standards in Washington. They are the only ones with equipment sophisticated enough to properly measure it."

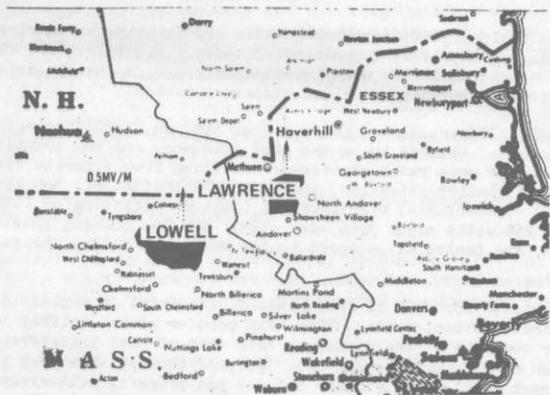
With measurement that critical I asked Jack how the station knows when the transmitters drift slightly off 1400? "You can hear it immediately. And, of course, we do have it periodically checked. When it goes off frequency, you can hear it. If you can imagine this, there was a time years ago when frequency adjustment between the two transmitters was handled by a huge mechanical system of pulleys and chains! The Lowell transmitter was the main and the Lawrence the slave. So, if the Lowell transmitter drifted a bit to the right of 1400, his huge mechanical system would go into-gear and 'fine tune' the Lawrence transmitter to match. Unfortunately it didn't move very fast, so by the time the Lowell transmitter went off frequency and the Lawrence corrected for it, the Lowell could have moved off in the other direction."

The situation is without precedent in modern radio and what makes the dual-transmission set-up even more difficult for WLLH is that the two markets of Lowell and Lawrence are quite different. Again, Jack told me, "Lowell is heavily into 'rock and roll' while Lawrence is more into 'disco.' Both towns are basically 'mill towns' with many blue-collar workers who get up early and are off to work by seven. These people are ready to 'rock' first thing in the morning, so we do very little day-parting of music. We do a lot of research in both markets for music and life-style information and that has only further pointed out the distinct differences between the two separate markets. But our main problem is that all the Boston stations have city-grade signals here, everyone of them. Also a problem in our day-to-day programming is that the two towns have very separate life-styles. Lowell is conservative, while Lawrence is more 'hip.' The people in Lawrence spend more money on nice clothes and go to discos more than the townspeople of Lowell. We fight the signals from Boston by trying to stay 'local' in many ways. One way the Boston stations cannot compete with us is in the area of weather. We are just far enough inland that our weather is different than Boston's, so people in our markets rely on our local information in that respect."

I asked Jack why WLLH remained as the only station of its kind left, long after all the other dual-set-ups had been done away with? "We were 'grandfathered' because WLLH existed before the rule against multiple transmitters was enacted. We were permitted to stay in our current two city set-up. There was a possibility of changing frequencies years ago, but the previous owners of the station felt very good about our unique situation and the Commission allowed us to stay. Believe it or not, there was originally a third tower and transmitter site proposed for WLLH in Haverhill, which would have made three transmitters broadcasting on the same frequency from three separate cities! Just before that was to happen the FCC, thankfully, shut down the multiple construction permits. I think that was back in 1936 or 1938."

If you think you're having technical problems at your station, just think about WLLH/Lowell & Lawrence and perhaps your troubles won't be so bad. Couple the technical aspects of dual transmission with the programming difficulties of dealing with two separate markets and I'm sure you'd agree, Jack Diamond has his work cut out for him. Thanks to Jack for his insight into a one-of-a-kind situation that is literally a "blast from the past!"

WLLH-1400  
Lowell &  
Lawrence  
Massachusetts



Typed by Gary Atkins

27 DEVON DR.  
WEST ORANGE, N.J.  
07052



N.J. ELLIOT R. STRAUS

NATIONAL RADIO CLUB

Elliot Straus adds a creative touch to his station reports by including his listener card. Such cards were widely used in the 30's and 40's.

**HEARD RADIO STATION:**

**GMT/EST:** \_\_\_\_\_ **FREQ:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**RECEIVER:** \_\_\_\_\_

**ANTENNA:** \_\_\_\_\_

**REMARKS:** \_\_\_\_\_

©1982 PRINTED IN SOUTH OAK RIDGE, TENNESSEE

### F.C.C. Never Acted on Bootleg Station

Woodbridge, N.J. News-Tribune (12/6/78) via Allen L. Nissen

By FRANK BOURKE  
News Tribune staff writer  
WOODBRIDGE — A lot of listeners in Woodbridge and surrounding communities are going to miss "Wolfman Bruce" and the gang at WCBN.

The area's underground radio station "rocked until dawn" Saturday before signing off the AM airwaves for what its young operators say will be the last time. But they have promised themselves that before.

WCBN, the Woodbridge-Colonia Bootleg Network, has been on and off the air, AM and FM, for the past nine years. The station's management, all Colonia High School graduates in their mid-20's, revealed that they have been transmitting illegally and apparently unbeknown to the Federal Communications Commission (FCC).

The bootleg station poured out all 1,000 watts from its hand-built transmitter as "Wolfman Bruce" hosted WCBN's farewell party, which began Friday night and ran into the wee hours of Saturday.

The emphasis as always was on hard rock music. There were no commercials ("That would get us in big trouble...") and the station's secret telephone request line buzzed continuously as scores of avid listeners phoned in with requests for their favorite cuts.

Others wanted to dedicate songs to

friends such as the "Tressel Tokers" of Avenel and the boys from Hubbard's Cupboard. The Wolfman, Rick, Lou and Bobby were only too willing to comply.

The station has now signed off the air indefinitely, and the transmitter, the "evidence" as Rick calls it, is en route to Haiti in the Caribbean, to a new owner.

The powerful unit was purchased from Rick, who built it, by a friend who says he will put it to a licensed use on the island.

Rick, now 23, is the mastermind behind WCBN, which had its "humble beginnings" through a group of Colonia students interested in radio and electronics. He built a small transmitter while in high school, and proceeded to set up a fully-equipped studio in his basement.

WCBN, operating under modest power, became the unofficial Colonia-Avenel AM station, as through word of mouth most of the area's young people found out about the unlicensed rock station.

Since then, Rick and his cohorts have gone through several transmitters, the latest giving them a power equivalent to the daytime wattage of similar legitimate stations.

The operators of WCBN are well aware of the FCC penalties they would face if caught broadcasting without FCC-approved equipment or a federal license.

"We could be fined \$10,000 per day or sentenced to two years in prison, or both."

said Rick, a Navy veteran. "But in nine years we haven't heard a thing from the FCC. If we hear that we are bothering anybody, we just go off the air for awhile. I don't even think the FCC knows we exist, really."

Rick says the FCC could easily trace the WCBN signal to his basement studio if the agency wanted to. "That would only take about an hour, they have the equipment to do it."

The four men have no explanation why the authorities have not tracked down their illegal operation. They admittedly have a large listening audience that includes "the boys at the Avenel Firehouse," most of "Mr. B's" bar and grill and young rock music lovers from as far away as Dover and Staten Island.

Rick surmised that the FCC is concentrating more on halting illegal citizens band communication, and in the meantime his powerful AM station has gone undetected by authorities.

WCBN, which could be heard in most of Middlesex County and the Bayshore area when on the air, has just about all the equipment found in a licensed studio. Rick can play albums, reel-to-reel tapes, cassettes and eight-tracks for his listeners.

Callers, who number among the privileged few to know the station's unpublished number, can converse, over the air, with the DJ's when Rick hooks up a special transformer to his telephone.

The phone number is that of Rick's parents, whose only objection to their son's antics came when they found their phone never stopped ringing, at all hours. To ensure peace on the domestic front, the ingenious station manager rigged up a device so that the phone no longer rings WCBN disc jockeys know when they have a caller by a blinking light on the phone receiver.

This past weekend's "going off the air party" left most of the station personnel in oblivion. Most had departed the studio by 2 a. m., others slept there peacefully while a determined Rick manned the microphone, promising to "rock your mind until dawn—at least."

Rick remained on the air in his final bow until his transmitter began to overheat and he was forced to say goodbye sometime around 4:30 a. m. Saturday.

"Goodbye, as in never to be heard from again," he said.

"Of course, everytime we go off the air we say that will be the last time," he laughed. "But I swear to you, this is the LAST time."

"Wolfman Bruce" seems to think his budding career is far from over.

"We are here to rock down this whole damn area, man, and the rock can never stop."

Tune in again sometime.

# wGNU

P.O. BOX 178 • ST. LOUIS, MO. 63166



# WJPS/1330

Box 3636 • Evansville, Indiana 47735

# MUSINGS

The opinions expressed in this column are those of the individual members, and do not necessarily reflect those of the editors, publishers or NRC.

ERNEST R. COOPER  
5 ANTHONY STREET  
PROVINCETOWN, MASS. 02657

## NO DX EXCITEMENT DURING ECLIPSE

**MIKE TUGGLE** - 909 Moores Mill Road - Bel Air, Maryland - 21014  
The Great Eclipse Day. I took the day off from work to check out the eclipse and listening CX during it. Both efforts were a complete bust. This place was so socked in with rain & fog that the darkening at eclipse maximum (62% of totality here) wasn't even noticeable. But there sure was some nice TV coverage of the event Out West. It was awesome to say the least! I sure hope some of our Western members come through with some interesting DX reports. Here, the locals seemed to pick up, if anything. On the listening front CX still range from poor to complete disaster, although on occasion some nice tidbit manages to squeak through. I finally managed to log #'s 349 & 350 on the crystal set (I think): Big snow of 2/19 kept local WEMD-750 off the air until late morning, allowing a logging of semi-local WABS-750 w/religion @ 10:30am. Earlier same day in a rare (for me) MM session I heard what appeared to be a CBC station on 930 s/off @ 1:10am. They mentioned a bunch of LPRT's (e.g. CHLP-1240, CELO-1240, CBEU-1340, etc.) all of whom relay CEL-740, and they played the NA. 'Twasn't CBM-940, because I tuned quickly to them and they were doing their own thing. So, for the while, I'm assuming it was CKNS-930 even though the Log says they s/off @ midnight. Can anyone show me the error of my ways? Sure would appreciate any help. 73s.

## HE'S NOW USING AN R-390 & AN SPR-4

**JOHN ROUSE** - 2703 Bartlett Lane - Bowie, Maryland - 20715  
(con'd from last week) 1/17- WACL-1560 Lancaster, S.C. 5:12pm w/ads, SID, rr mx. WSKT-1580 Knoxville, 5:35pm w/ID "You're tuned to WSKY-1580, Knoxville", religious mx. 1/19- WSRF-1580 Ft. Lauderdale, 5:16pm w/ID as "Album Rock on Surf-16", rr. 1/20- WMOP-900 Ocala, Fla. 5:40pm w/ads, IDs as "WMOP Country Gold" w/c/w mx 5:46pm s/off; WHIO-1290 Dayton, O. @ 6:59pm w/NX, WX, SID & CBS NX. 1/26- WCAW-680 Charleston, W.Va. 5:16pm w/SID u/WCEM; WKIS-740 Orlando, 5:18 very weak w/SID, mention of "Central Florida"; WBBR-1580 Travelers Rest, S.C. @ 5:46pm w/s/off w/Russ Johnson; WRBX-1530 Chapel Hill, N.C. 5:30pm w/s/off, mention of "Triangle Carolina Broadcasting". WSMI-1540 Litchfield, Ill. 6pm s/off; WHK-1520 Elmhurst, 6:02 w/NX, ads, WX, c/w. WNOP-740, Newport, Ky. 5:32pm w/"ABC NX" & WNOP NX @ 5:35. WBSM-1420 New Bedford, Mass. 6:10pm w/"WBSM NX" w/Jim Phillips, & ads. WFEA-1370 Manchester, N.H. weak w/mention of "Get ready, Manchester". 2/1- WNWS-790 So. Miami, 6:15pm w/"NX Radio 79" WX, SID; WKBA-1550 Vinton, Va. 5:57pm asking for contributions, religious mx, 6:59pm w/Carl Henley? (Ye ed skipped a page, sorry - back to 1/26): WHIS-1440 Bluefield, W.Va. 6:44pm w/WX, mx, ads; WEIG-1470 Greensboro, N.C. 7:36pm w/BKB "N.C. State vs. Wake Forest" w/ads, SID. CHOW-1470 Welland, Ont. 7:39pm w/SID; WFBC-1330 Greenville, S.C. 8:27pm w/SID, WX, rr. 12/4- WAJR-1440 Morgantown, W.Va. 5:40pm w/SID. 1/29- WZAP-690 Bristol, Va. 5:14pm w/s/off; WAPB-690 Jacksonville, 5:15pm w/rr ID, ads, SX, c/w. 12/10- WAAY-1550 Huntsville, Ala. 5:27pm w/SID; WYHX-1550 Smyrna, Ga. s/off @ 5:29. 12/17- WGTQ-540 Cypress Gardens, Fla. 5:14pm w/c/w F announcer, IDs as "54-GTO", ads, 5:29 s/off. 1/14- WLIB-1190 NYC, 7:15am s/on, soul mx. (now back to 2/10 -ERC) WXYZ-1270 6:42pm w/SID "WXYZ in Detroit." Now let me catch my breath. My family & I took a trip to Scotland for Christmas & New Year's to visit our relatives and my dad & I turned on my grandmother's radio and heard Germany, Moscow, France, Spain, etc. Just imagine getting those over here! My dad got a SUPER GREAT deal on an R-390 & I now use two radios, that & the SPR-4. We had a GTG at our house a few weeks ago, as you might have read in BILL TOWNSHEND'S 2/12 Musing. Among the NRCers there were TOM MATTHEWS, TOM WHITE & BILL TOWNSHEND. I talked to Richard Kimmel on the phone & he is interested in joining NRC. And my dad might be a potential future member. I got my new NRC Domestic Log in the mail & it is really a great help. The one I was using before was from 1974. Reports out to WIBG, WHNC, WMC, WERC, WHIS, WAPE, WACL, WSKT, WSRF, WMOP, WHIO, WNOP, WBSM, WNWS, & WKBA. I think this is the longest Musing I have written. So long for now & 73s to all.

## KERR-1070 IS TESTING THEIR 50kw XR

**ALPHONSE B. TOBIA** - 7603 Linden Court - Newark, California - 94560 2/23/79  
The morning of 2/22 at about 3am PST proved interesting hearing KERR-1070 in Polson, Mont. testing their new 50kw XR & new DA system. I have heard KERR in KNX's null before w/their 1kw directional signal & they are usually weak but this morning when they were testing they were so loud in KNX's null & when I tried to favor KNX they were right on top mixing w/KNX - which is always strong out here at night. I had to call them (a practice I try to avoid) to let them know how loud they were; they said I was in their null & I asked for a verie I more detailed info so when I get it I'll pass it on. They did mention the signal is directed mainly N. I assume they will be 50kw days & still operate nights at 1kw directional, but I'll know more when they verie. Other recent catches include WCOO-830 w/WX @ 4:35am in good. XEROK-800 w/SS @ 4:37am, CFUN-1410 w/talk about their local jazz clubs in Vancouver @ 4:20am all on 2/18. That's it for now - 73s to all! I just heard KFTA-710 @ 9pm PST on 2/23 I thought they were days only, guess not - they must be a day & night operation. Bye!

PLEASE NOTE, MUSERS: IF YOU USE MORE THAN ONE SHEET OF PAPER, PLEASE NUMBER THE PAGES. -ERC

## STICKER TRADING, ANYONE?

**MARK STRICKERT** - 5715 North Kenmore #302 - Chicago, Illinois - 60660 2/26/79  
(8th straight Muse!) 'Lo! After the MM 2/19 action, the last weekend seemed totally dull by comparison. Only new station was an easy one, CKWS-960, received 2/26 @ 1:11 am after WSBT s/off w/"WS-96", Kingston WX, rr. This while trying for KGWA TEST (via Flash Alert), a no-show here. (Ha Mark, KGWA was for SM 2/25! -ERC) Also no dice on WCVS-1450-TEST, KUKU-1330-TEST, or KONA-610-TEST - too much WIP in the latter case. I slept through the KRZD-1470-TEST. With my luck, WMBD was off this morn. I did get a call from BRIAN SHERWOOD, not a big deal considering we chat often, but it was while my sister, mom, & I were discussing recent phone calls for the previous owner of 312-561-3249, a Mr. Fred Guppy (as in the fish - I've checked this & it's true!) Sis was wondering what to say if Mr. Guppy were to call asking if there were any messages. I was about to say something stupid like, "Sam Smet called, but I told him you were in the tub but someone let the water out, so you're now somewhere between here & Peoria", when the phone rang. It was Brian Bass - us, Sherwood, hi. Oops - I gotta stick to DX only. ('s OK, Mark - you were fishing for DX! -ERC) I actually received a verie - KQNK-1530 from the 2/12 TEST. To all those waiting with baited breath (c'mon - get serious!), I won't be at YAD. I've got to save my dough for college, & my vacation the end of May. Also, I'll have to be moving in April as the lease runs up & the building has been slowly decaying since the mid-January blizzard. Where to yet, I don't know. It'll have to be temporary as I'd be moving again in August. At least I'm used to it. Anyone interested in sticker trading? I've got a few from WISM, WQXI & others. Let me know what you want & got. The sticker collection outnumbers veries almost 3-1. Also anyone willing to sell/trade for/give away perhaps radio station T-shirts, or know how to get 'em, please contact me right away. Lastly, a mini-mothball memory: A recent Muse by ALLEN W. LUCKEY in which he told of his first DXing RX brought back memories of my early days of DXing, seven years ago. Mine was a small portable, barely 2"x2"x1". I don't remember the brand but ROB KRAMER has one exactly like it. On Memorial Day AM '72 while trying to find WFL-1000, I got WRVA-1140 instead! I borrowed my mom's AM-FM portable & found I could get far-off places like Akron, Philadelphia, & Omaha! WOW(590) - I was hooked! Most of my DXing from '73-'76 was on a Realistic "Jetstream" AM/aircraft portable. The VHF was awful, but I liked the AM. However, it was dropped once too often & had to be retired. I joined NRC & bought a Realistic TRF during the "discontinuance" scare of Nov. '77. It has served me well both alone & now as a team with the Fanasonic RF-2200. In a town where the DXers are all ga-ga about the Hammarlunds, I'm one who keeps it simple. When has to move twice in six months, that's really the only way. Adieu & 73's.

## SOME NICE DX HERE FROM ALL DIRECTIONS

**NEIL ZANK** - 623 Lyncrest Drive - Lincoln, Nebraska - 68510 2/25/79  
As good as any DXing period might be, it is bound to turn around some time. I am into one of the slow ones now. Some veries have come in for my collection: KEYR, WCAW, WLOU, KVSL, KDWN, WWA, KAWL, WBOK & WJTH. The KDWN v/q came one year & two days from report, one f up in between was sent. For actual new DX we have this: 2/12- WJTH-900, Calhoun, Ga. DX TEST heard 1:36-1:52am fair-good w/mx-TT-IDs including phonetic; WGGG-1590 Salamanca, N.Y. w/ surprising strength w/TT & one ID 3:20-3:23am when they seemed to go off - my first N.Y. f/c ever heard. 2/15- After a couple of nights trying I IDed WFMT-1450, Cicero, Ill. w/c1 mx and ID 2:50-3:01am, not good enough for a report however; un CJWW-1370 Saskatoon, Sask. noted @ 3:05-3:15am w/Mor & promos. 2/24- Fourth Sat. I noted f/c from KQAL-1230 Price, Ut. 2:06-2:15 am w/TT & IDs each minute, not on new f/c list and I believe it was previously listed for 4th Sunday. 2/25- After a BOB McCoy tip and a week of trying I made an ID on KOKI-1240, Okmulgee, Okla. w/Larry King Show, ID, & Mutual Net NX 3:40-4:06am; also this date a very tentative on proposed PoP of KGWA-960 in Enid, Okla. 1:12-2am w/possible ID @ 1:12 and some tone bursts during the period. Now a personal view on the subject of poetry in DX NEWS. I trust that we are not going to have a lot of juvenile bickering over this subject. Some of the poetry is cute, some of it funny and some of it stinks. We don't need it to get out of hand, as merely allowing a place for someone to get something into print. There may be a time and place for some of it, the April Fool's issue for example. I think that LPC has to take some stand regarding content & space in the bulletin. Have we already seen some people who if the game isn't played just the way they want it, take their ball and go home? I suggest a mature attitude, people.

## BACK IN NEW JERSEY FOR CHRISTMAS

**PAUL MOUNT** - 35 1/2 West Columbus Street - Nelsonville, Ohio - 45764 12/13/78  
Sat. Dec. 9 I drove around reacquainting myself with Bergen County as I visited N.J. I sacked Radio Shack's sacred store in Fort Lee for \$10 of Rs, Cs, & Qs hoping to do some TRF work. But they no longer have the stack of loopsticks in stock so I'm stuck. (Three times fast, hi). With a makeshift LW tuner minus LS (and a makeshift LW for that matter) I tuned CKAP-580 in Kapuskasing Ont. which is way Up North. They were loud with mention of final news 10:45 and "Dust in the Wind" then ten minutes of NX, then SX, & lost. MM 12/11 seemed to be an exercise in "How to log your TV set on ten frequencies" as my living quarters are above the TV set. The QRM stopped when my mom turned off the Ruffles and then I went down and watched it; bet KON RYCH did too. WDAF-610 Mo. fair o/u WIP & a Tier, 1:54am. WETT-1590 Md. @ 2:15, I've logged them three times between N.J. and Ohio, all at 2:15am by chance. Station #516 added in WROW-1240 Va. 3:27, this is one of those stations my sister had in her log & I needed! 12/13- Having learned a lesson from Ohio about SSS, I waited a while on 1580 after WPGC s/off, & was rewarded w/WSRF "Surf 16" rock, NX 5:24-5:30, then more silence till WBY, Ala. s/off @ 5:45 saying you-know-what. Also that 316 ---- South @ 5:45. W-RW on 1460 6:16-7:00, but WPRW is unnn. Het on WQMB's high side, no audio.

OUR NEXT DEADLINE DATE IS MONDAY, APRIL 2. REMEMBER NOW - ONLY ONE MUSING PER ISSUE PER MEMBER! BE SURE TO DOUBLE SPACE, YES WHO WRITE OR PRINT ON LINED PAPER - SKIP A LINE, PLEASE!

THINGS PEAK AT TWILIGHT IN CHESAPEAKE

EDWARD R. COTTON - 4106 2nd Street - Chesapeake, Virginia - 23324 2/27/79
Now with the February Muse. Some real interesting goodies here. Goodies for here anyhow. 2/4- 6:30pm WETU-1250 s/off w/F announcer, SSB not noted, signal was weak. 6:57pm, KTEL-710 first time heard w/T-4 countdown. 2/5- 6pm WJMX-970 w/evening NX. WILLI TEST w/only tones heard here w/local WPCF nullled. 2/7- 6:17pm, WLB3-860 s/off fair w/WRAP splatter. 6:30, WKMK-1000 s/off weak after WBOV & WQTY s/off. 6:45pm, WYFA on until 8:02 pm w/snow emergency and beautiful signal. The first station I know whose signal comes up when you are trying to tape them, hi. 2/9- 5:10pm WOKO-1460 VID through 2RM. 6:30pm WKRG continuing NX was heard w/fair signal. 2/10- 5:46pm CKOT-1510 w/many mentions of FM @ 5:51 pm. 2/11- 7:14pm KMZK rises out of noise w/ 'This is Fort Worth, KMZK' ID. 2/12- For the first time ever I heard WIBC off & testing! Through WFLI came KMX-1070, my much-wanted Cal. It's impossible w/WIBC on here. 2/13- 5:58pm WKBY s/off fair, no SSB. 6:29pm WCOB-900 s/off fair w/tune to FM thing. 2/14- 6:30pm WDXN-540 s/off fair, alone after WGTD power change. 2/15- 6:17pm, WKAQ-1510 s/off weak & alone, no SSB. 2/16- 5:37, WKEK-1430 w/'Radio Blacksburg' NX. 5:58 WSMX-1500 s/off fair o/u WTOP w/'Down in Dixie' song. 2/17- 5:35pm, WMFD-630 fair w/'63 MFD' ID. 2/19- 12:44am, WRGA-1470 in local-like apparently non-directional pattern due to WX in area. 8:45am, WLIX-540 fair w/religion, WDMV off. 6:30pm, WMTD-1380 s/off 30 minutes late due to local emergency. 6:43, WRAQ-1380 w/'14-Q' IDs fair to poor. 2/20- 7:45pm - WPAD-1560 ex-WDXR fair w/c/w & P-A-D Country' IDs. 2/21- 6:30, WSEP-1580 s/off fair, no SSB. 2/23- 6:13 WHT-1450 o/u WFOG. And on 2/26, Local WRAP off & testing - in came KOA-850, much wanted, w/IDs, religious program & talk show, first heard @ 1:30am. WRAP only goes off about once a year. On KUKU TEST, only tone heard w/frequent breaks, report sent. That's it for February. I will be in Milledgeville Ga. first two weeks in March. I will report on what I get there. 73s.

DXES EVES AND MORNS; DOES WELL

TOM BULL - 2544 Naylor Road S. E. - Apt. 202 - Washington, D. C. - 20020 2/27/79
I may incur the wrath of all the poets & poetesses but hopefully their grapes have tender vines. I didn't realize HQ had eliminated poetry completely, I thought they only objected to poetry as a separate item. I would vote in favor of including limericks when included as part of a Muse, but have reservations about poetry as a separate item, same as I do about comic strips. Perhaps a compromise could be worked out, sort of a quota system. Make that a 35% system, a "quota" won't even buy a nickel candy bar now-a-days. Perhaps our folks into poetry could be allowed one poem for say every five reports to one of the columns, Ray, Chuc, or ERC. That way we keep the various editors busy, keep the folks in poetry happy, and drive the folks at HQ right up the wall. I sincerely hope no one, & I do mean NO ONE either leaves the Club or quits sending in reports because of this issue. Heaven help us if folks like PAUL MOUNT, BILL TOWNSHEND, or MARK CONNELLY get into poetry. As to what's been heard: 2/3- 1:43am, 1628kx WGOR having feedback problems; 2:39 WIRV-1550 Ky. w/ET. 2/5- 1am WJWL-900 Del. TEST, again 1:31-2:16am; 1:15am WILI-1400 Conn. TEST-TT heard until 1:25am, splash from WEAM killed him; 2:50am, WAEB-790 Pa. w/SID. 2/7- 5:58pm, WDSB-800 S.C. into WX, s/off w/SSB; 6:44pm, WSHO-800 La. s/off, no SSB. 2/11- 12:58am, WSAV-N.X. w/opening for engineer, lengthy s/off w/SSB. 2/12- No sign of WJTH-Ga. TEST, KQNK Kan. gave us tones 1:10-1:13am, WEXY took care of the rest. That afternoon two newies on 1050: WGGI Ga. @ 5:54 pm & WACR Miss. @ 5:49. 2/14- 1:58am, R. Surcos-1430, Havana; 2:12, WFLI-1070 Tenn. testing w/50kw. 2/16- 6:13pm, WRAQ-1380 N.C. ID as 14-Q through WEAM slop. 2/17- 6:30pm, WANN-1070 s/off w/Taps. 2/18- 9:29pm, Unn WSWA-550 Va. running full power due to WX emergency. 2/20- 12:55am, WJAT-800 Ga. w/f/c after XEROK fade. 2/21- 2:20am, WATO-1290 Tenn. f/c. 2/23- 1:43am, On 850, FF phone-in thing, CKVL-P.Q., 5:55pm, WPGC-1580 into OC briefly, then WPGC-FM until s/off @ 6:02. 2/26- No luck other than TT on either KUKU or KRZD. Note on 2/3, 4am, WBFQ-Ky. f/c ID by F, first time I've heard an F on a f/c. That brings us up to date. Take care and don't forget to Muse. (Mark wrote us a poem a while back, Tom! -ERC)

FEELS THAT THE PRO-POETRY FACTION HAS BEEN SOLICITED

DICK TRUAX - 3003 Gleason Lane - Louisville, Kentucky - 40299
Poetry vs. No poetry - Evidently several members who are in favor of poetry have been solicited to both write HQ and/or Muse decidedly in favor of continuing poetry on a regular basis. I would personally urge those not in favor to also voice their opinions openly in Musings so that both sides have their 'day in court'. Being on the pubcom for two years, I personally am against letting poetry continue on a regular basis. Perhaps poetic contributions could be used in the April Fool issue or held for future use as filler in lieu of clips or cartoons currently used. I believe we in HQ have strived to continue DX NEWS on as professional basis as NON-professionals can. Not since our takeover in April 1977 have there been any rate increases. Not once has there been any censorship in any column unless an item was in extremely poor taste. The policy we have tried to follow is to keep the publication DX related with complete freedom barring remarks made in poor taste. Even so, now and then we miss an item that some might construe as vulgar. The publication that we are responsible for every week has to be consistent with our (HQ) ideas of what it should be. If the majority do not like our ideas, we are open to suggestions, and, if we can not justify implementing same then perhaps a new publication committee can better serve the interests of the membership. I am sure this will be an issue of considerable discussion in ST. LOUIS on Labor Day 1979. The above opinions are my own personal views and not to be considered as a joint opinion of any of the other LADS on the pubcom. Not often do I get on the soap box, in fact, never before in 12 years of membership. The hobby should be fun - not a political arena. End of speech. Next Muse will be more DX related, more as it happens.

ARE YOU FOR OR AGAINST CLEAR CHANNELS? ARE YOU FOR OR AGAINST POETRY? FOR OR AGAINST DX? PLEASE, THEN, MUSE, AND TELL US ABOUT IT. BE SURE TO DOUBLE SPACE. NEXT DEADLINE, 4/12/79.

WHAT HAPPENED TO ALAN ROYCROFT?

BILL HARANG - 811 Nevada Avenue - San Jose, California - 95125
Alan Roycroft (at one time in the past) was a name that frequently appeared in DX publications. What happened to this man? Whatever one has to say about this man good or bad, it certainly must be admitted that he certainly has done a lot for us DXers and for the stations he worked for. For many years, he was the CE and v/s of almost (if not all) of the Oahu stations on OCB. The current 1979 WRTH doesn't show him as CE for KZMB, KORL, KKUA, & KIKI. Back in 1971 or so, I remember that he reportedly was the CE & v/s of these stations. Roycroft went "beyond the normal call of duty" to DXers in verifying, something of which many CEs wouldn't do. He would comment on conditions and reception of Honolulu stations on the back of the QSLs he sent out. He wouldn't send out his veries in plain "ordinary" envelopes, but in beautifully colored envelopes with beautiful scenes of Hawaii on it. It's interesting to note that though Oahu is the third largest island, it has three-fourths of Hawaii's people, almost half of whom live in Honolulu. Although today Oahu is the only island on which other economic activities overshadow agriculture, it also has far more land planted to pineapple than any other island. Yes, that includes Lanai. Its sugar plantations produce about 20% of the state's crop, its truck farms and orchards yield 25 to 30% of all Hawaii's fruits and vegetables. I tried to see Roycroft at his Broadcast Services location while I was on the island of Oahu, but I had to turn back on the way of intending to walk there. This was because I had some prior made arrangements to meet some other people at a certain time & I didn't want to be late. It's too bad in a lot of ways because I would've liked to meet Alan in person. But even then, since he is such a busy person, I had no guarantee he'd be there. The day KZMB, KORL, KKUA, & KIKI gave up Alan Roycroft, they lost a very valuable asset. Let's not lose such a friend as Alan Roycroft. We have a lot to be grateful to him for.

DX IS SOMEWHAT DIFFERENT AT SQUAW VALLEY

PETE TAYLOR - 2614 Jackson Street - San Francisco, California - 94115
Greetings National Poetry Club members! Remember our club slogan, "A verse a day keeps the DX away!" Not too much activity lately, but I did log KORV-1340 2/6 1:33-2:33 pm, ELT, mulling KOMY. My wife & I have been skiing at Squaw Valley most weekends since New Year's, and this past weekend I took the SM-2 along with the ICF-6700W. No loggings were made, but it's interesting to note KBOY-730 at SSS, Brookings, Ore.-910, Klamath Falls-960, XEX-730 w/no CKLG, KSRV-1380, and some actual WRN on KNER for a change of pace from San Francisco. Even from Squaw, not even a peep from KOBY-1550; obviously very DA. Nice v/l in from KOAC. On 2/26, I had to choose between taking pix of the eclipse or DXing, & I chose the former. The "poetry problem" is not worth the energies being put into the reactions. The censoring problem has come up before; poetry has simply gotten out of hand. Why not fill up your Musings with DX instead? Can't those of us who pay \$15 a year to read about DX get our money's worth? Even worse are the "philosophy" Musings with no DX at all. It is amazing how some of us choose to contribute. I think Ernie's past poetic convention recaps were timely & proper, annually. I support the LPC. (IRCA would have voted on it but the result would be the same). In summary, (1) I'm in favor of DX news in DX NEWS; (2) the poetry has been cut so let's move on and fill up the space with hobby items; and (3) maybe as a last ditch concessionary effort, LPC could occasionally fill up a leftover blank page with leftover blank verse. This issue isn't worth any more discussion. 73 to you from me!

WELCOME TO A NEW MEMBER IN THE NORTH-WEST

TODD WILLIAMS - 508 Pine Street - Hood River, Oregon - 97031
73's to everyone of you from every one of me. I just joined the Club so this is new to me. I'll just start in by listing the regular nighttimers heard here in Hood River on my Realistic DX-160; CBK/XEWA-540, KAFY/KOAC/CKPG-550, KSFQ-KPQ-560, KVI-KLAC-KLUB-570, KFYD/KMJ/KOMY-580, KU3N/KHJ-590, CJOR/KSXD/KOGG/CFQC-600, KFRG/KONA/CHML-610, KGW/CJCI/CKCK-620, KIDO/KOH/CKDC-630, KFI-640, WSM-650, KBOI/WMAQ-670, KNBR/CHFA-680, XETRA/CBU-690, KIRO/KMPC-710, KIDN/IGN-720, CKLG/CKIM/XEX-730, KZBS/CBX-740, KFQD/WSE-750, KFMB/WJR-760, KOB-770, KQRL/WBEM-780, KABC/KGHL/KJRB-790, XEROK/TWR/CHAB/CKOK-800, KGO/CHQR-810, WBAW-820, WCOO-830, HAS-840, KOA/KTAC-850, XEMO/KTRB-860, WML-870, KRVN-880, WLS-890, CJVI/CKEI/XEW-900, KNEW/KOXR/KALL-910, KRLY/KOLC/KGAL-920, KSEI/KHJ/KAGI/CJCA-930, KFRB/CJIB-940, WBM/KJR/950, KAEI/KAYK/CFAC-960, KYTE/XBEE-970, KFWB/KTNS/CKRM-980, XECL/KKTS/CKRM-990, KOMO-1000, CBR/KGHJ-1010, KTNQ/KBCQ-1020, KTAO-1030, WHO-1040, XED/CFGP/CKAL-1050, KPAY/CFCN-1060, KNK/CFAX-1070, KJWJ/KJCO-1080, XEPRS/KING-1090, KFAX/KREX-1100, KBND/KRLA/CHQT-1110, KPWW-1120, CKWX-1130. I'll finish the list in the next Muse. I have reverified the following: KJHR KFID KHEL KUJ KMWX KFI KZOK KJR CFRN KOFI KFRG KIDO KPMC CFUN KONA KBRG KOLO KBND KEX. And I have many more in the mail. Also, before I close, I would like to know the meaning of the abbreviations you use. (They're all explained in the New Member Packet, Todd! -ERC)

LIKES, BUT DOESN'T WRITE, POETRY

BILL COLEMAN Jr. - 114 Circle Drive - Rocky Mount, North Carolina - 27801 (919-443-7282) 2/26/79
Since ERC is on a Musings strike, I think I will (11pm - 3am EST) be, too. This thing of taking out poetry is insane! Besides, we're supposed to have a little freedom of speech, right??? I personally like to read a GOOD poem sometimes, although I don't write any poems. Also, I think we're supposed to VOTE on the matter as a Club!! And not just leave it up to headquarters to omit stuff over a very small handful of complaints! When there's a plenty more who like poetry, than the ones who don't! What's the difference in that and a lot of cartoons? 73s until it's VOTED on, properly.

UP-COMING MUSINGS DEADLINES: MONDAYS, APRIL 2 and 23; and MAY 7; then SATURDAY, MAY 26.

ABOUT KANSAS CALL LETTERS

PAUL SWEARINGEN - Box 500 - Moran, Kansas - 66755

316-237-4584

Recent articles about call letter history and confusions got me to thinking about stations at which I had worked plus other area stations. The "meanings" of such as KIND-Independence, KNEM-Nevada, KCMO-Jansas City should be obvious, but what about KALN-Iola (Now KIKS, never pronounced as "kicks")? Well, Iola is the country seat of Allen County, & in theory the station served the county, rather than just the city. K-A-L-N is rather difficult to say distinctly, so except for legal IDs we announcers said "Kay-Allen". KVOE, Emporia, formerly KTSW, was trumpeted on its letterhead (but rarely on the air) as "Kansas' Voice of Emporia", which makes little sense. I always wondered if the owners attached the slogan after the fact of changing the call letters, but I never got up the nerve to ask them. Then until circa 1969, KCRB-Chanute was rumored to mean "Chanute Radio Broadcasting", but disgruntled employees called it "Crab" or, if really ticked off, "Crub." The call is now KKOY, which, along with sister station KOYY-El Dorado, tends to bring the name of owner Dale McCoy before the public. Eastern Kansas is now being treated to "Coy" radio, whatever that is supposed to mean. I last was gainfully employed by KUDL-1380 when it occupied the cellar of the ratings battles as a rock station. Yes, we were "Cuddle Radio", a big happy family, with the AM XR, the AM & FM studios, & AM towers in Lenexa, the FM XR & tower & the business offices in Merriam, the FM licensed to Kansas City, the AM to Fairway but beamed to Kansas City, Mo, the sales staff scurrying all over the area in a frantic effort to drum up business, & former announcers & staff scattering all over the U.S. at the rate of one every other week as a result of management's revolving door hiring-firing policy. I lasted for 14 months as a newscaster until management decided to economize by cutting down on the NX staff. A couple of years later, KUDL went all-NX & even changed its call letters to KGNW (guess what that means?) Now, KGNW is a gospel-religious station. Why not? A few other random mumbblings: KLWN-Lawrence is known affectionately as "clown"; Topeka has two "bird" stations, KEWL and WREN, which was moved lock, stock, and barrel from Lawrence, and Garden City's KUPK, allied with Wichita's KAKE, was known as "cupcake". 73's to all & 30 to all of this.

NEARING HIS 700th DOMESTIC CATCH

FOREST E. OSBORN - Box 961 - Hooker, Oklahoma - 73945

2/27/79

On Feb. 9 @ 2:58am EST, XEBBC-1470 from Tijuana with what sounded like s/ off and at correct time according to WRIVH. On Feb. 14, I had a little spare time and went over my logs. Since 1975, my logs show 698 domestics heard and 70 foreign stations heard. I don't verify stations except for TESTs or excellent catches but I only count positive station IDs in my logs. This includes 39 states; missing are Alaska, Del., Hawaii, Maine, Md., N.H., N.J., Ore., R.I., S.C. & Vermont. Also logged are Alberta, B.C., Man., Ont. & Sask. with 19 stations; Mexico with 42; Cuba-6; Costa Rica-5; Colombia-4; El Salvador, Surinam, Nicaragua, Netherlands Antilles, Belize, Guatemala, Haiti, Antigua, St. Kitts & Cayman Islands. Back to DX: 2/20 @ 2:25-2:40, KBRX-1350, O'Neill, Neb. w/TT & IDs per f/c list. On 2/21 @ 1:24, KLE-1400, Galveston, Tex. w/TT & ID; @ 2:57, KGNO-1370 from Dodge City, Kan. w/TT & ID. Then on 2/26 from 2:36 to 3am, KUKU-1330 on for TEST with tones, VID's and mention of NRC; from 3:01 to 3:30, KRDL-1470-TEST on with tones, VID's with phone number and mx; @ 3:42, WMP-1250, Milwaukee, in for good ID; @ 3:49, KMGX-940, Tucson with WX & call change; @ 4:01, KCKN-1340, Kansas City with "Mother Earth NX" & SID @ 4:02. In reference to poetry in DX NEWS; With no offense to the poets of the NRC, I don't feel poetry is helpful to me personally in my hobby of DXing. But on the other hand, I usually read it for what it is & then go on for the beneficial stuff anyway. I do feel the Publishing Committee should be able to "censor" the material for DX NEWS as long as the majority of their mail supports their choice. I hate to see something like this cost our club any of our fine members, but I do support the LPC whatever their choice may be. Thanks to BRUCE CONTI & BRAD LOVETT for clearing up my "WPLJ" on 1050. 73s until later.

DX ROLLING INTO BRANDENBURG LIKE A BACH CONCERTO

JOHN HOOGERHEIDE - 105 BaySide Lane - Brandenburg, Kentucky

DX continues: 2/17- WRBE-1440 Lucedale @ 6:15 and two good logs - in KTON Belton, s/off leaving KIKZ Amarillo atop all on 940. 2/18- WJTH-900 Calhoun 6:30 s/off. I missed this one on TEST & most welcome. KCTO-1540 Columbia o/u KZRK Ozark. + set tape recorder for WDBQ-1490-TEST & caught CW - six letters - DEMBQ - which I assume to be Dubuque, also some TT two minutes later. QSLs this week: WGAC-580, WRUF-850. 2/24- New log in WDC-1310 s/off @ 6:15pm, Ky. #101; WRKW-1350 w/double s/off 6:30-6:33 w/SSB; 6:45pm s/off of WKZ folo by KMAR-1570, both unnn, but WKZ is unverified. On 1560 someone in CST @ 7:15pm giving call of WSTI-FM-96 & IDing as "Great Country" saying having technical difficulties - sounds like AM'er forgetting to pull switch. I have no FM book. Per call to station I learned the offender was WRCL, Bolivar, Tenn, still on @ 7:30pm. 2/25- WMPQ-1390 s/off, no anthem, @ 6 pm, new log. MOR-1330 Morehead @ 6:13 for new log, just before s/off. At long last, WMP-1590 Mascagoula, Miss. s/off @ 6:45pm, no anthem. Hey, who signs off @ 7pm in February with SSB, I suspect in Okla.-Ark.-Tex.-La. area as it was Auroral each night heard, but WCKY was just too strong. 2/26- I doubt if WCVS-1450 was on ND-1,000 w/TT - it should have made it here & nothing here but very weak TT w/jumble. But a great log in KTNQ finally on 1020, Los Angeles @ 2:05, not heard in ages. WSOX again ruling 1230 - loud on a not-Auroral night at 2:30; new log in WVKO-1580 Columbus w/TT 2:40-2:44 off. Weak TT noted on 1330 under strong WFBC, probably KUKU-TEST.

AS THEY SAY IN WEYBURN, SASK., "CFSL-1190". COME TO THE "CITY OF FUN, ST. LOUIS" FOR THIS YEAR'S BIG N.R.C. CONVENTION. THE DATES ARE EVER SO SLOWLY SNEAKING UP ON US - AUGUST 31, and SEPTEMBER 1, 2, & 3; THE LABOR DAY WEEKEND. MAKE SURE YOUR VACATION PLANS ARE MADE IN TIME SO THAT YOU WILL BE SURE TO BE FREE TO ATTEND THIS FUNFEST ON THE BANKS OF MIGHTY MISS!

JERRY COMES UP WITH HIS 900th LOGGING FROM ROCHESTER

JERRY BOND - 143 Burwell Road - Rochester, New York - 14617

2/25/79

Hello again everybody. Here in Western New York we've just struggled through a record mid-February cold snap that saw ten straight days of sub-zero temperatures. Now the temperature has gotten all the way up to a balmy 40° though & my fingers have finally thawed out so that I can type another Musing. The DX is still trickling in & since last time this is what I've been hearing: 1/21- WWIN-1400 came through w/a nice ID @ 1:43am, & later in the day unnn KFAB-1110 came in unusually early @ 5:20pm. 1/24- Unnn WSLW-1310 W.Va. was noted at 5:29pm s/off w/no SSB & WDKD-1310 Tenn. was heard @ 5:30 s/off. 1/26- WJLS-560 came in well @ 5:22pm. 1/28- I tried a little SM SRS DXing for the first time in years to see if I could catch a few stations before some local s/ons & I was rewarded with WRCM-1370 Pa. @ 6:35am & WAYZ-1380 w/7:30am s/on w/SSB. Both are usually blocked by local WSAY-1370 which has a 7:45 am s/on Sundays. I also heard rarely logged WNRV-1380 @ 7:23am. Later in the day, rarely heard WHAG-1410 came in @ 5:15pm s/off w/no SSB. 2/1- Nothing new around SSS this day but I did note WHUN-1150 @ 5:45pm s/off w/no SSB, WNRV-990 @ 5:59 s/off w/no SSB, & WKDE-1000 @ 6pm s/off. I also noted WIFE-1310 @ 6:19pm w/DJ "Super Cooper". Is this guy related to our Musings Editor by any chance? (If he's handsome, yes! -ERC) 2/2- WBVP-1230 came in w/a nice ID @ 5:59pm for my 900th station from Rochester. Got a ways to go to catch the 1300+ logged in six years of DXing in Watertown, N.Y. 2/3- WRRV-1550 noted w/ID during TT @ 1:46am. 2/4- KVOO-1170 was noted @ 1:11am & three minutes later @ 1:14 I got an ID out of KSTT weak u/KVOO. MM 2/5- Local WBBF-950 was off this AM for the first time in several years & that enabled me to log KIOA-940 for the first time @ 1:24am. I tried for the WILLI & WJWL TESTS but I didn't get any IDs out of either one. I heard a TT on 1400 at various times between 1 & 2 & exactly @ 2am I thought I heard a WILLI ID but I couldn't be sure. On 900 I heard what might have been some CID's @ 2:18am but nothing definite. 2/10- Two newies noted around SSS - WANT-990 @ 5:45 s/off & YVOE-720 @ 5:58pm w/a R. Vision jingle. Rarely heard WHYZ-1070 was heard @ 6:15 s/off. 2/11- WKBW-1520 was off the air for several minutes around 5:25pm but I couldn't get any IDs out of the two stations left on the frequency at the time. I also had a K.C. Kings NBA Network station that I assume was WIBW from 6:53-7pm on 580, but no ID. More next.

HIS LOCAL WINS AN AWARD

BRYAN LEE - Brooklyn, Dullneicut

Yep, it's me again. Seems you can't get rid of me, huh? Hi. Hartford Courant's "TV Week" section has of late been very interesting with their small section in the back entitled "Station Breaks". In one news story, local WILLI won an award for the best SX coverage for the small stations category, in the second annual Conn. Associated Press Broadcasters Association Radio News Contest. (Try to say that five times fast!) In other dull local news: This hot tip also from "Station Breaks": WJLS-FM-98.3 has hired a news director Franz Wenograd, who formerly worked for the "Courant". Isn't that just amazingly interesting? (Zzzzz!) WTIC won an award in the large stations category for, of all things, its coverage of the Hartford Civic Center Roof Collapse last January! Boy, I wonder who won the award for the nicest looking stationery? (hi). We have now FIVE all-disco stations in the area (ugh, x 5): WMAS AM & FM, WJKS AM & FM, & WBOB-FM. Enough is enough. Anyone hear the tones on 1520 recently? I think it might be WPOE from Greenfield, Mass. testing their new facilities. I hope y'all listen for WTHM in March. (It'll be on every MM from 4 to 6am), or in New Englandish: I hope you all listen for WTHM in Maahhh. (It will be on every Monday Maahning from faah am to 6am, hi). Total heard here is 535 with 53 verified. Recent additions to the log book include: WBVM-1550 @ 5:33pm on 2/24 signing off, WPDM-1470 w/pop mx & mention by DJ "I'll see you tomorrow, we'll be signing off after this song," on 2/24 @ 5:24pm. And among others heard, on 1450 on 2/22 @ 5:52pm with what sounded like a Wins newstime 5:50.. I'm pretty sure this is WWIN as there were lots of mentions of Atlantic City and area. That ID had me scared for a second - I thought it was WINS! Time to yawn, so I guess I'll leave at this. See you in a week or two.

STAN MORSS - Route 3 - Bradford, Massachusetts - 01830

Wednesday was a big day - I visited Lefty in Provincetown and found him fit as a fiddle - and just as I arrived home a call from BILL HUTCHINSON from "snowbound" Baltimore (guess I shouldn't mention 'snowbound') Conditions are so-so and nothing new was heard this past week. KSL seems to have dropped Jepko - a sort of soft music show noted - Jepko heard only on WBAL now - heard on 790 a couple MMs before CKSO went AN Mondays. Verie, WYFA, one of my 25 nearest unverified - still have reports to six others on the list (WJKS, WRDL, WITS, WMLB, WNRV, CJLP) and hope to get answers out of some of them. WITS & WRDL are proving to be toughies with three reports each. Nearest unheard is WLTN-1400 at 115 miles. 1400 is a total loss with local WLLH AM-7 - I can hear WBRL & CJFP in WLLH's weak point occasionally, and that's it. Three ANs on 1330 MM but no KUKU heard, & no sign of WBIO-TEST this month. WSRD, KOFI, KMLO, & WYAG have been given full time - there goes 1470 at SSS - plus five new AM's this week. Don't fiddle with the fiddler!

POETRY, BASKETBALL, AND VERIES

ROBERT WIEN - 945 Desert Isle Drive - San Jose, California - 95117

This is a continuation of my Musing on the banning of poetry in DX NEWS. Poetry is described as "the representation of experiences or ideas with special reference to their emotional significance, in language characterized by imagery and rhythmic sound." What is important to point out that poetry is a representation of experiences or ideas, just as is an opinion or point of view. It is just another way of expressing one's individual point in a Musing, just like normal language & grammar. What is unusual is that in the "Static from HQ" of 2/19, the typist mentioned "We at HQ have received letters critical of the non-DX items

(Wien, con'd.) which appeared." Why have these "non-DX items" included poetry, when the poets or authors of the "poems" themselves have tried to make the poems fit into the context of the DX hobby? It gets boring to always read someone's Musing when he just drones on & on of his list of stations he has heard in the last month or whatever. It is stimulating to read something different, or written in a different style, e.g. BILL HARANG's recent Musings of analyses of personal behavior. If these are so-called "non-DX items", why haven't they been censored from the Musings? This seems to be a paradox to what HQ is saying, since this apparently seems to be a non-DX related Musing or Musings. HQ writes that "...a policy which we believed to be in the best interest of DX NEWS and NRC." Shouldn't a poll be taken to at least find out what the members themselves feel about this issue? This is an issue which affects all members, and they should all express their opinions, whether pro, con, or neutral. This way, HQ can find out if this "censorship" of poetry was really "in the best interest of DX NEWS & NRC." UNID on 1400 today w/Wildcats BKB game, ad for something in "Westlake Village", gone by 6pm. Anybody know this? Veries in: KELC-1270, KTKR-1310, KCLV-1240 f/c, KBFT-1450 f/c, KTAC-850, KKIO-1290-TEST, KESE-1240 (ex-KMBY), KMLO-1000 ET, KAFF-930 & KSL-73s.

WYIS-690

VIC MELIS - 150 Saylor's Mill Road - R. D. 1 - Spring City, Pennsylvania - 19475  
After only seven months on the air, WYIS ("wise radio" & "Your Information Station") announced on 2/23 that as an effort to "tighten up financially" it is replacing all of its afternoon talk show personalities' Ed Harvey, Donald Barnhouse & Lou Yager. The station had hoped to attract a significant share of the Philadelphia audience with Harvey & Barnhouse (big names from the WCAU talk format years), a strong signal (even though they're 25 miles out of town and compete with WWDB (FM), WHAT & 50% of WCAU) & a toll-free number. The potential, however, was never realized as heavily promoted guests frequently failed to show & there was a noticeable absence of callers even when they did show. Recently, Francisco Towers, Inc., of East Syracuse, N.Y. filed suit against WYIS to collect an unpaid \$9,000 on a \$19,000 tower construction bill. Almost an entire year before the station's 8/78 s/on, the half-completed tower construction was halted during legal battles with property owners adjacent to the tower site who feared devaluation and tried to have the zoning approval changed. During this delay, Phoenixville's Suburban Cable-TV decided to also file an application for the same frequency. Harvey, Barnhouse & Yager also held positions as VP, GM, & PD at WYIS and helped to get the station on the air. They will now be replaced by "family members" of the station owner, the Rev. Dr. B. Sam Hart. Taped religious programming will continue from s/on to 12 noon. Other news... wonder if anyone noticed an unusually strong nighttime WFN signal on 2/9? At 5:30pm they tried to switch to their nighttime power but after a few tries they returned with full 5 kw daytime pattern & left it on all night! Best signal here since FM simulcast days! I finally got around to wiring audio output jacks from my car radio for taping "on the road" after my wife complained of sore arms holding the JVC AM/FM Cass near the window on a recent taping expedition to WABE Allentown. I heard WAPE & WVOK a few times in January & sometimes even with local WYIS (five miles SSE) still on! WYIS left their carrier on for a half hour after 5:30pm s/off on 2/16. I hardly had to null their signal with Dymek DA5 antenna to hear CBF L&C! 73's.

WELCOME, BRIAN, TO THE NRC & MUSINGS!

BRIAN BURSACK - 3809 Lindhurst Road - Columbus, Ohio - 43220 2/26/79  
Well, I've finally found the time to sit down and type out my first Musing. Here's a little introduction: I'm 17 (almost 18), and am a senior in High School. I 'officially' began to DX in 1976, and my interests in the hobby have varied since then. I'm becoming very active in the hobby so I can get as much DXing in as possible before college. I do practically all of my DXing on a Realistic DL-160, & at the present time I am using a 50 foot LW antenna. As soon as the weather clears up I intend to replace my other antenna (a 65' dipole for SW) with a regular LW. I also plan to build a loop antenna as soon as I can find the time. So far I have tallied a total of (is that illegal poetry?) 225 stations from 33 states (and D.C.) & ten countries. Right now I DX whenever I have the time (which is not too often). One of my dreams is to move to Desolation, Montana, and set up an antenna farm (four or five Beverages to cover the world). What luck! Normally I would be in school today, but it seems that today is that one day in a million when Columbus Public Schools actually close! (Usually nothing less than the sinking of Atlantis will close schools). And I thought I was going to miss DXing the eclipse. The only regret I have is that I didn't know about it last night so I could have stayed up for the MM graveyard shift. Oh well, that's about it for now. I'll tell you the results of my eclipse DX next week. 73s.

DX IS GOOD IN "LITTLE RIDDY"

CLAY ADAMSON - 35 Liberty Street - East Greenwich, Rhode Island - 02818  
Fri. 2/23- CKEZ-1320 N.S. @ 2:53am. CFQM-1320 Ont. @ 3:01. WARA-1320 Mass. @ 5pm. Sat. 2/24- WGM-1320 Fla. @ 1:29am. WSPC-1470 Mass. @ 5:15pm s/off. WSAW-1470 Pa. @ 6:51pm. Sun. 2/25- WAM-1470 Me. @ 12:30am. WLRB-1600 N.Y. @ 5:30pm s/off. WNEE-1600 N.Y. @ 6pm. WUPF-1600 Mass. @ 6pm. Mon. 2/26- WOND-1400 N.J. TT 12:22-12:26, ID 12:24 for f/c. CJCB-1270 N.S. @ 3:40am. WXY-1600 Mass. @ 3:47am. WXY-1270 Mich. @ 4am. WSPR-1270 Mass. @ 5pm. WOKT-1270 Va. @ 5:14pm. WTSN-1270 N.H. @ 6pm. WCBC-1270 Md. @ 11:33pm. 2/27- WFTL-1450 Va. @ 1:15am end of f/c. WOCB-1240 Mass. @ 4:46pm. WOKR-1240 R.I. @ 5pm. WQCO-1240 Conn. @ 5:27pm. Wed. 2/28- W-1240 CBS WX 2am, who? WCB-1290 R.I. off for maintenance, 11:55pm to 6am Thursday. 3/1- WKNE-1290 N.H. CBS WX @ midnight, s/off 12:06 w/SSB to return @ 5:30am (log change). WGLI-1290 N.Y. tele-talk @ 12:09am (log change). WJKB-1290 Ont. 12:44 am. WQVA-1250 Va. @ 1:44am. Thurs. 3/1, PM- WENE-1430 N.Y. @ 5:35pm (carries Ae NE) WKKS-1430 Mass. @ 5:45 s/off. CKFH-1430 Ont. @ 6:06pm. WVAN-1430 Pa. @ 6:09pm. Fri. 3/2- Radio Surcos-1430 Cuba @ midnight. WBTX-1470 Va., WBBG-1360 Va., WMB-1360 N.J., all f/c per list.

\*CLEAR CHANNELS AND POETRY\*

BRUCE CONTI - 39 Bayberry Drive - West Warwick, Rhode Island - 02893 2/28/79  
(This week's dialings have been reported to RAY ARRUDA for DDXD, so that I may present my views on two items of controversy among NRCers.) Clear channels and poetry are actually // to each other when looked at in depth. Many DXers would like to see the clear channel stations remain undisturbed, because the medium wave is already overcrowded. The clear channels also fear a loss of prestige and money. Many DXers would like to see the DX NEWS remain undisturbed by non-DX items because space is limited. Those DXers also fear a loss of prestige and money. However, there are others who feel it's time to improvise the products for a wider range of coverage. Permitting low power stations to operate full time on the clear channels would broaden the base of AM radio by allowing daytime-only minority & community oriented stations to better serve their listeners. WRIB-1220, WILD-1090, WOSU-820, & WNYC-830 are fine examples. Permitting poetry and other "non-hard-core-DX" to appear regularly in DX NEWS would broaden the base of the publication. Elementary Electronics, Popular Electronics, CQ, and S9 are fine examples of publications which include humorisms on related topics. Now, I would like to dole out the ultimate compromise for these two conflicts. Why not go halfway? I believe other stations should be allowed to broadcast on the clear channels from 5am to midnight, thus serving localities when they need the most and serving DXers & truckers when they need the most. I believe a separate one or two page humor column should be allowed in DX NEWS, thus serving those who want to read DX poetry and other nonsense while others can still read their favorite sections without being deflated by originality. What ever happens with clear channels and poetry, DO NOT QUIT if you can't have it your way! As a DXer, you must meet the challenge of the demise of the clears head on. And as an NRCer, you must continue to contribute as a member of the club or our club will suffer the loss. Nothing is accomplished by a quitter. 73's. (When WRBB goes off the air, even the college students hit the sack, hi!)

HEARS SEVERAL EUROPEANS AND KFI

HARRY ADELMANN - 7 Academy Street - Belleville, New Jersey - 07109 2/24/79  
Hi - I thought I would let you know how it's going in Belleville up to late January. Bad line noise all over the dial, especially the high end and being in a valley doesn't help much. On to DX. 1/22- WSPR Springfield w/TT @ 12:47- At 12, Conakry good with slight fades. Monte Carlo, 11:50pm 1/22, boys' choir in GG, announcement @ 12:05. 1/23- Arabic chanting on 1295 (?). 1/24- WKIC-1310 announced @ 11:20. 1/27- WBBC Chicago-1260 @ 11:30 pm. 2/12- Nice, France @ 1:05, 1557. WQXR was off but came back on @ 1:10 so not much copy. SS on 880 & on 660 @ 2:15. WRKO-680 @ 2:50. KFI with talk on pre-marital sex @ 2:45. WCIL Carbondale Pa. @ 12:45, TT on 1440, date missing, I think on 2/16. 2/17- 1590 kHz @ 12:40, WHTY Clayton, N.C. VID. 2/19 @ 12:12 Monte Carlo-1467 GG announcement & chimes very loud. At 12:45, WWSG-1450 Glens Falls, N.Y. Langenburg-1593 also in for a bit. 1:55, WMOO-1550 Mobile, Ala. f/c @ 4, announcement, music, power output, etc. KSTP-1500. I tried for WDBQ Iowa but no luck. Then my tape recorder blew a fuse. My other recorder for dubbing was already on the bench for repair. It would speed up for letter or two. I was quite a while locating the trouble - it was the counter. The pulley is plastic and had tightened on the shaft redrilling hole solved problem. On 1206 kHz, 11:57, Bordeaux-France time pips at midnight, nice mx, FF singer to 12:10 on 2/21, no ID, some splash from WCAU. F/c on 1310 at 12:45 but no ID so to bed. The '78-'79 Log book arrived today and looks super. What do I eat while DXing? Nothing - I am diabetic and must keep on my diet. I forgot to say I DX most of the time with a Pilot 200. I have an RCA Communications RX ACR 175, vintage 1936 which I keep repaired and up to snuff. I also have Radio Shack's TRF but the Pilot & RCA are equipped with mechanical filters so I like them best. Also, two loops & LW. For now, 73.

LET'S NOW WELCOME ANOTHER NEW MEMBER - HI, CHARLEY!

CHARLEY HOFFMAN - Box 321 - Manheim, Pennsylvania - 17545 3/1/79  
Greetings to all. I'm a new member so a short introduction. I'm 28, single, and presently unemployed which gives me plenty of time for DX, but is a little hard on the pocketbook. For the past four years I've been a member of NASWA & SPEEDX and have heard 150 countries on SW. I've been a novice MW listener since the 1960's and only recently joined NRC & started keeping accurate MW logs. My main interests is domestic stations and my totals for the past two months stand at 22 states heard, 20 verified which has only scratched the surface of what can be pulled in with my FRG-7 and DX-160 w/50' LW. The recent Musings by NRC members about WKBW Buffalo, and DJ Joey Reynolds brings back many fond memories. Remember the nights Reynolds played the song "Surfin' Bird" by the "Trashmen" for his entire program except for IDs and the news? I bet there are still a few WKBW listeners in padded cells, at the local funny farm, from Reynolds' zany exploits. Concerning ERIC FADER's unID 1/29 on 1400 kHz, he heard my local WFEC Harrisburg, Pa. which IDs as "Disco 14" and now has a disco format. There never was a large c/w mx market in the Harrisburg area since a large percentage of the population is black. My apologies to ERC. I hope he can decipher the scrawbling I call handwriting. I don't own a typewriter. 73 & good listening to all. (Your handwriting is A-OK, Charley, but please double space next time! -ERC)

POETRY SHOWS INDIVIDUALITY

TONY LAGATTUTA - Box 6291 - Portsmouth, Virginia - 23703  
Greetings again. Not a lot to mention, except maybe changing of local WVEC-1490 to WDE which often IDs as "2WD." While experimenting with the homebrew RX (180-600kHz) I was reminded that, as they say, once the "DX Bug" bites, it may be for life. Lately, study, work, & other commitments have taken up time which could be put to building a new RX, etc. Recent mention in DX NEWS related to poetry being sent in my members but being rejected (for printing) by the leadership. I could see if individuals send in nothing but poetry which is in NO WAY related to DX. However, a bit of poetry shows individuality and anyway there is always mention of family, etc. which is not directly related to DXing. Also, members are urged

(38) (Lagattuta, con'd.) to Muse. This poetry is usually related to DXing and harms no one. After all, they do print comic strips; who not a bit of poetry from members who have talent? Best wishes to all who keep this fine bulletin (DX NEWS) going.

#### WCHE-TEST WAS HEARD IN TOLEDO

DAVE SCHMIDT - 42 Chelwynne Road - Castle Hills - New Castle, Delaware - 19720 2/28/79  
This Musings is being typed on a fresh ironed shirt, you can say it's hot off the press - hi! To what's hit the wire here: 2/12- KRNV-880 12:25-12:35am, loud w/WCBS off. With WRC now off MM, 980 is a good place w/KMBZ noted 2:19-2:39am w/MoR, many promos, WFGH also noted testing off & on. 2/19, snow day, 18 inches, & WRGA-1470 2:32-2:45am w/c/w mx & cancellations, way atop. WDOV-1410 also noted AN that MM. 2/26, the TEST from KUKU-1330 showed, 2:30-2:44am w/TT & one ID squeaking past WFBC. Tones noted at 3am on 1470 till 3:05, don't know if it was KRZD. I also had to make some repairs to the SM-2, so I hooked the LW on the set, put the dial on 1450 about 1am or so, heard tones which I couldn't get an ID on, & it turns out there was a special from WCVS-1450 which I found out about later. (Join the Flash Alert Service of DAN MYERS, Dave! -ERC) The SM-2 was repaired by 2:30. Now how's that for an excuse for letting one get away - hi! The WCHE TEST on 2/27 netted calls from Toledo and West Chester - hi! Now if only I could have had the station on 2/26 w/WKEW off at 2am or so. Maybe next time. Verie total at 980 w/KMBZ-980, WILI-1400-TEST, & WMOO-1260 being the latest v/l's added. In regards to the poetry, my idea would be to use it as a filler such as we use the newspaper articles, station logos, etc. However, when the DX info is heavy & a lot has to go into one issue, it should be excluded. After all, isn't the purpose of DX NEWS to pass along information? I couldn't get my vacation over Labor Day, I'm still just a rabbit at work, hi! Till next time, 73's. (Ha Dave, WKEW was off 2/28 & 3/1 also! -ERC)

#### THE ECLIPSE HAD NO EFFECT ON DX IN WASHINGTON

BILL TOWNSHEND - 4500 Connecticut Avenue N.W. #901 - Washington, D.C. - 20008 202-966-8046  
Well, we finally got gonked with 18" of the white stuff whose crystals are star-shaped (heaviest single-storm snowfall in 57 years since the "Knickerbocker" storm of 1922) with total snow depth 24 inches, this was MM 2/19. The snow disappeared the following weekend with 3" of rain & floods on our Beautiful Potomac (I went through 12" of water en route to work 2/26). Believe it or not, the snowstorm, which shut down "Le Metro" (subway) for several days and closed offices for a day and schools for a week, broke the back of the severe cold spell which gripped the Mid-Atlantic region for two weeks with a pre-storm low temperature of 60F (-14°C). Now to DX. During the cold wave, the very worst WX of the Winter (2/9-2/20) I logged 19 newsies, 16 domestic and three foreign, plus a re-log of KVOO-1170, which I haven't heard since my high school days 30 years ago. States & provinces: N.C. 3; WFMC-730, WLAS-910, WDOC-930. S.C. 2; WPAL-730, WYTC-1150. Ga. 3; WJOR-730, WGAJ-910, WMAA-1130. Tenn. 3; WLLJ-730, WQOW-1150, WORI-1550. Ala. 1, WHYY-1440. Miss. 1, WFMP-1580. Ont. 2; CFOS-560, CFRA-580, & N.S. 1, CEH-860. Countries: Cuba 2; CNJP-1430, QYGB-1560, & R. Paradise-1265, St. Kitts, Basseterre. My pipeline to Florida finally ran dry. On the day of the total solar eclipse (Mon. 2/26) which was 60% here in D.C. & was clouded out, I held a midday DX session with the Radio Shack TRF during the lunch break, which was the time of maximum eclipse and found CX to be no different than at midday with full sunlight. Apparently 80-85% eclipse is required for reception CX to improve appreciably. I am awaiting Musings from WC members who DXed during totality. However, I did hear WJJD-1160, WMAJ-670, WHAS-840, & WLN-700 at mid-eclipse (They were heard anyway with full sun, so negligible change). I tried DXing the CPC TEST from WCHE-1520 but that darn NSP pest WKBW dominated the channel and our local yokel WEEL, & WGH after WEEL s/off, kept me from logging WEIO-1310's CPC TEST. As usual WDOC splatters everything from 1240-1280, while WEAM slops the 1370-1410 range, especially when rock mx is played. I have mixed emotions about WDOC & WEAM; I enjoy many T-40 songs but I did oldies, especially the "Do-wop" songs of the 1954-1962 era; for ordinary listening I listen to the above, as well as NSP WMAJ (hear 30's & 40's songs on SM 8am-noon), but as a DXer these stations are pests. 10,001 divided by 137 de WPT.

#### STEVE'S MOVING TO THE CHARLOTTE, N.C. AREA

STEPHEN H. PONDER - 4105 Glen Street - Bossier City, Louisiana - 71112  
Greetings again from the balmy South! No, it's not Summer yet, but the thermometer has been giving us some Summer-time readings here. It is final - I'll be moving to the Charlotte, N.C. area this month, leaving my home here in Louisiana, to assume the responsibilities of full-time church work at Mount Harmony Baptist Church in Matthews, N.C. Contrary to popular belief, I did not decide to move there just because I wanted to add N.C. & S.C. to my logs, hi - but, as long as I'm there, I may as well have fun, right? A thanks to fellow NRcer RON SCHILLER for his newsy letter & his offer - thanks, Ron, but I will most likely not have enough time to do it up right. The thing that bothers me the most about the move to N.C. is how to try to squeeze all my accumulated junk into my little car & still have room for me, hi. I'll take my radio junk with me, the rest my parents can air-freight to me. No DX to report, the partial eclipse we saw in this area did not have any noticeable effects on the band, except that a lot of the noise usually noticed was absent. Too bad there were T-storms around, with all their rumbling & crashing, hi. I have long awaited a chance to clean up my holdovers in my logs, so this past month I sent out a bunch of PP/cs, in hopes the Mardi Gras spirit would cause some of them to come back as veries - only time will tell. I just hope Mardi Gras next year is better than this: All Louisiana sneezes when New Orleans has a cold during Mardi Gras, hi. That one festival holds a lot of the revenue used all over the state, as well as allows all us students a holiday when other states do not, hi. That's about all; my next Muse will be from my new 'shack' in the Tarheel State of North Carolina! Good DX & 73. (Good luck to you, Steve, and may God Bless! -ERC)

#### TPs ARE PLENTIFUL EVEN BEFORE THE D.U. SEASON

RANDY TIMER - Box 2674 - McKinleyville, California - 95521 2/23/79  
Two Muses in a row, this might be a record for me. Like Hank was saying in the Feb. 19 DX NEWS, the last half of January '79 was pretty nice for DU reception, & a lack of interference from the Japanese powerhouses made things easier. Signals were not that strong, but there were plenty of them. I finally IDed 2GF, Grafton, on their new frequency of 1205, & still no sign of Fiji there yet, although there is a carrier in nightly by 0700 GMT could be from N.Z. Sometimes this frequency has an almost graveyard-like quality, lots of carriers, none very strong. There is also a frequent signal on 1205 & I don't think it's the Caymans as it's not in until 0800 GMT or so. (Jam EST -ERC). I had hopes that R. Fiji outlets could all be easily heard with the new wave plan, but so far no soap - even when 891 is blasting in, Fiji-711 & 639 are usually not present, and the only other one I've come close to hearing is Fiji-1467, a tentative noted in November and not heard since. Discouraging? Heck no, in March & April Oceania and DU's will be blowing our "shacks" over here on the WC and even during crummy CX, I've been hearing Tonga-1017 nightly, the Solomons more often than not, though weak, & nightly reception of New Zealand on 1008, stronger than 660 & 880 ever were and much more constant. And if all else fails, there's always my favorite background mx station, "KIKI Disco 83" with the Coyote, hi. 73's.

#### BUILDS HIMSELF A NEW LOOP & LOVES IT

GEORGE A. SANTULLI - 215 Pacific Oaks Road - Santa Barbara, California - 93017 2/25/79  
Well, I finally did it, after years of procrastination I finally built me a loop antenna! I trotted down to my friendly Builders Emporium and bought the assorted wood screws, wire & other assorted goodies and did it. I must admit I thought the plans I had were a little hard to comprehend especially where the connection to the variable capacitor was concerned, but I persisted and won the battle. I hooked it up to the RX & presto - signals bombarded the antenna, the band came alive like never before. A twist here and a twist there & I was hearing stations I had not heard here before. For example, on 2/19 while on 1130 I heard the usual KSDO-Calif., but when I moved the loop a little bit in came KWKH-1130 & this was @ 11:30pm. Since then I have been playing with it trying to get it ready for a session tonight (2/26). I wonder what tomorrow morning's solar eclipse will have to do with signals here. We in Santa Barbara will have an 82% eclipse and all week the FM band here has been screwed up. I have been hearing Las Vegas & San Diego FMers where normally are Ventura stations. Should be very interesting. I hope everyone has some strange CX like I do. I hope everyone in the West tried for the KKIO special TEST on 2/5. It was on this time & I have a taped copy of the DX TEST. It had many IDs and tones & the mx. I have gotten to know Mr. Erway, the owner, quite well as a result of the TEST so maybe a re-test for next season. I'm still working on some other area stations for TESTS this year - I hope to materialize one more. Got to go now, it is time for the KUKU TEST. Maybe it will make it all the way. Good DX to all.

#### AND LET'S WELCOME STILL ANOTHER NEW MEMBER!

DOUG McABEE - 8122 South State - Goodrich, Michigan - 48439  
A big Hello from Goodrich, Michigan! I've been a reader and not a writer too long. I'll do better in the years ahead. I am 31, married, work at the University of Michigan Flint Campus where I'm a supervisor in the grounds and maintenance department. I've been DXing off & on for 15 years and enjoy all forms of the hobby. That is building, reading, talking about, and of course the real thing "turning the dials". I do some TV DXing but by far it's MW. I called CKLW & talked to one of their engineers about AM Stereo. The fellow said they would be testing in the middle of March. The tests will run 24 hours a day & each system will be tested for two days. CKLW will announce on the air which system they are testing. They will have a full promotional buildup before and during the tests. CKLW wants to be first to go Stereo on a regular basis. The rush is on at WCAR too. WCAR, Detroit, has a new studio with all new stereo heads on their turntables and tape machines. They are waiting to see which system gets the go ahead from the FCC. The engineer I spoke to called it a real shot in the arm for AM. He also said that WJR is getting ready too. WCAR has had five letters asking for verifications from Scandinavian countries this Winter. I talked to Fred Vobbe, the PD & CE at WJHM-1530 Lapeer, Mich. They have been doing a lot of work on their studio & antenna system, & have a new XR. With 125% modulation they have 7,500 effective watts output. WJHM gets most of their requests for veries from Ontario & New England & have been heard in Finland this Winter. With the improvements this station would be a good one for DXers in Ontario and New England to look for. (And elsewhere too, Doug, as they'll be testing 4-6am every Monday during March -ERC) Fred told me he has read in a trade magazine that WCAR & WABC should be testing in stereo soon. (Wonder what a cycle tone'll sound like in stereo-ERC)

#### LOGS FLORIDA REGIONAL IN MICHIGAN AT TWILIGHT

SCOTT PARKER - 2104 Harrison Avenue - Muskegon, Michigan - 49441 2/28/79  
Veries received since my last Muse are WEMP-1250, KCRG-1600, WFIR-960, WOR-710, WKZO-590, & KQNK-1530. I've been doing a lot of SSS DXing on my days off and have been finding it very rewarding. One of my better SSS catches was WWWW-1430 in Panama City, Fla. on 1/27 @ 5:46pm. It's my first Florida logging for State #32. I heard the WDBQ-1490-TEST, report is on its way, but I slept through the 2/26 TESTS after an exhausting day at work. I recently logged my 200th domestic and totals now stand at 214/50 and 32/26. I was disappointed to read of the LPC's decision to stop printing poetry in the DX NEWS. I enjoyed reading BILL WURTZEL's limericks, finding them a welcome change of pace. I hope they will reverse their decision and allow poetry in Musings once more. I attended a GTG at fellow NRcer BILL WHITACRE's on 2/17. I had a good time meeting some of the other DXers from around the state and viewing Bill's very impressive DX "shack". Until next time, 73.

LIKES OUR COLUMNS AND ALSO IRCA'S

STEPHEN D. MILLER - Boston, Massachusetts (Vol. 1 No. 10)

Hi Everyone! How's DX? For DX &amp; DXing it's once again in the mud.

Shucks! I received first issue of IRCA's DX Monitor 2/20 and was I surprised to see my name on the cover and not in Bob Curtis' excellent "EDXR" column. As I mentioned in a just recent Muse, my article entitled "Takeover in the Night" is a goodie, so be looking for this goodie! in Vol. 46 No. 25, or 28. Please read, and write in your next Muse what you think of it! I'm proud to be a contributor to (for the NRC) RAY ARRUDA's DDXD and ERNIE COOPER's Musings columns, and the IRCA, Bob Curtis' EDXR & John Zondlo's EDXR. Excellent! columns, you guys. Which reminds me, have any of you fellow IRCAans & NRCers sent to the various columns' editors? They need your support too, as well as the HQ pubstaff committee. I guarantee if you participate, contribute, and support these two clubs or any other radio club the whole effort will be worth your while. PS- Does the IRCA have a membership certificate, 'cause the NRC's is great! (I don't know, Steve - they'd have to answer that - ERC) Well, that's it for this "evaluation survey" Muse. Until next time, probably, hi. 73s.

LOGS TWO MAINE STATIONS AT SUNSET

LINDA BRODSKY - 245-16 149 Avenue - Rosedale, New York

February was a very good month for SSS DX here on my "improved" TRF-SM-2 combo. The extra time spent at the dials undoubtedly helps too! Twelve new stations were logged and taped. Best two were WKKA-900 & WDEP-1390 for a new state, Maine. Other goodies include WHUN-1150 Pa., WCCR-1580 Ill., WZTO-1380 Tenn., WGMG-1410 Va., WLMSS-Mass. 1370 (1000?) - ERC) WLEE-1480 Va., WRSC-1390 Pa. with a plug for its FM outlet "Quick Radio FM-97"; WEIC-1380 N.C. "The Best in Country" & WAMS-1380 Del. I also have a tape of a station on 1510 that sounds like WYZE - any ideas? I am quite irritated by stations such as WFMJ-1390 using slogans like "14-FMJ" for IDs. When your dial readout isn't that great, you really need that kind of "help" from a station. I don't see the point of it anyway. Do they think the public is so dumb that they can't tune a radio to a particular frequency or remember a station's location on the dial? I guess they might have a point if the station's programming is so unmemorable. So much for that. I hope March is a good DX month for you all. 73.

ADDS ARIZONA AND CALIFORNIA

DAVE YOCIS - 85 Vesper Street - Fairfield, Connecticut - 06430

2/27/79

Welcome again. Totals have been increasing lately; we are now up to 471/38+8/25. This with the recent additions of two new states: California, in the person of KFI-640, @ 3am 2/16 w/"You Needed Me"; and Arizona, with KNIX-1580 making it 2/20 @ 8pm fighting CBJ. In addition; the pirates of 1620 have finally arrived: CEN-1620, announcing central New England, I caught s/off 2/16 @ 2:17am o/u WFAT-N.Y., & a slight het. (I guess 1620 isn't a clear channel any more, gl). The school mini-course is doing well, thanks to PAUL SWEARINGEN & BILL WURTZEL for their immense amount of help - my sincere gratitude! One question I have - all you SW people, is there any real substitute for the WRTH? And, now, to complete DX Down the Dials for this post: 1230-WINF/WFAS. 1240-WCOU/WGBB. 1250-WTAE/WKBR. 1260-WNDR/WWEZ. 1270-WSPR/WXYZ. 1280-WADO. 1290-CJBK. 1300-WAVZ/WFBR. 1310-CKOY. 1320-WATR. 1330-WEVD. 1340-WNHC/mess. 1350-WNLK/WSLR. 1360-WDRG. 1370-WFEA. 1380-WNVR/WBNX. 1390-WFEL/WEAM. 1400-WSTC. 1410-WPOP/CIGO. 1420-WBSM/WHK. 1430-WNJR. 1440-WPTQ. 1450-WNAB. 1460-WOMB/WOKO. 1470-CHOW/CKO. 1480-WSAR/WJIT/WLEE. 1490-WEGH/WNUS/WKMY. 1500-WTOP. 1510-WITS/WNLC. 1520-WKEW. 1530-WCKY. 1540-WPTR. 1550-CBE. 1560-WQXR. 1570-CKLM. 1580-CBJ. 1590-WQQW/WAKR. 1600-WWEL/WUNR. Thassall. 73.

BACK AGAIN; HAT IN HAND

ERNEST R. COOPER - 5 Anthony Street - Provincetown, Massachusetts - 02657 617-487-9337 3/6/79

My thanks to members TOM BULL, DAVE SCHMIDT, DAVE YOCIS & ROLLAND LINDELSADE for their comments on my erstwhile Musings, and particularly to Dave Yocis who pointed out to me that you can't win by quitting. I can recall an old radio sports commentator who used to sign his show off nightly by saying, "A winner never quits, and a quitter never wins." I guess I've made my point, or have I? I want to see the poetry back in Musings, but I think what got my goat was that + thought the decision should be mine and not the LPC's to make. I will not quote it here, but please, if you are interested, go to your nearest dictionary and read the definition of "Editor", and "Publisher". The verie situation has been a disaster here, with only WJTH-900-TEST in w/v/l since my Musings moratorium. DX in the last week or so goes like this: 3/2 - Somebody on 1230 testing with sweep tones, and heard again on MM 3/5 most of the morning, no VID's noted. No sign this month of WPH's r/c on 1010 - maybe their new CE has changed their r/c time/date, or eliminated it. 3/3- Semi-local WSTR-1060 ending an ET @ 1:17am about even w/KYW; this channel is workable now that the Cuban has gotten on frequency; previously, low, they caused an awful het here. "Your Radio Station", WABK-1280, was AMing today - they do this every once in a while, not regular - yet. TTer on 1490 1:47-2:07+, TT on/off. At 2:22, WCOU-1240 discovered topping easily here x/Pop (they said) apparently with 1,000w, by their volume. FM, old friend WCBR-1530 "Outer Banks Radio" s/off @ 6:13pm, no music, & unnn TWN-1570 doing well o/CKLM @ 6:18pm. PZX-914, Klew Nickerie, Surinan, in nicely 6:45-7pm turn-off (to watch Hee Haw). SM 3/4- 'Twas Xaine GY day, with WCOU over 1240, now on RS, 2:41; WMOU-1230 @ 3:38, & WPCR-1490 all AX. Oops, WMOU is in N.H. MY 3/5- On 1044a, Hindi-style mx noted 1:05-1:35 fadeaway, no ID, but how can you ID this kind of programming? Only by the WRTH, hi. WLO & WNBC off today. WFL-1070 mentioning FM-94 @ 1:58-2:03. TTer on 1080 around 2:08. Another one on 1380 @ 2:27. Sweep tones on both 1220 & 1230 after 3:05am. UnID SS on 1530 @ 2:37, faded away soonly, hi. 3/6- no Cuban w/WEII-590 today; WRKO-680 on OC only, no IDs from 2:27-4:05, but another log (my 4th) on CIYQ; this time I got the jock's name & I'll send him the report. CJYQ-930 noted too, 1/-650, "293Q" IDs. And so we end the weeklies for another season - my thanks to so many of you for your support.

CHAPTER C VIII - "THE PITCHMAN"

- BY CARY SIMPSON.

In radio's "middle years" there was a group of men who combined all of the spell-binding charm of the southern gentleman, with the urgency of a "shoutin' preacher" and the "come-on" appeal of a sideshow Barker. He was the Pitchman who sold us vitamins, baby chicks, records, hair restorers, and play-by-ear piano courses. The Pitch Man came right out of the medicine show. He was absolutely terrific. He could sell anything, and we, the public, would buy, buy, buy. Generally, the Pitch Man would work on a Mexican border station beaming its programming back into the U.S.A., or he'd be on an all-night clear channel outlet, and everything he sold was mail order. You sent the money and they sent the merchandise.

The Pitchman held sway from the early 30's until the early 50's. People living in small towns and out on the farm would listen to the country music, and between the songs, the Pitch Man would sell you on buying something. The commercial pitches used to last three or four minutes, and by the time he finished, you were totally convinced.

Without a doubt, the best and longest-running pitchman of all was Randy Blake, whose "Supertime Frolics" on WJJD, Chicago, ran several hours each early evening. He could weave a spell around any product; he was so convincing that you would buy whether you needed it or not. Hal Horton, who was on KRLD, Dallas, as well as XEAW, Reynosa, Mexico, sounded more like the old side-show Barker, but he could really sell! Nelson King sold millions of dollars of mail-order items on WCKY in the years of the first half of the 1940's. WCKY had been a basic CBS Radio network station and the owner, L. B. Wilson, got into a fight with CBS, so he cancelled out and made his station an independant. It was an immediate success with its six hour Jamboree each night.

In the 30's and 40's, a half dozen superpower Mexican border stations sent out signals blanketing the U.S.A. A typical one was XEAW, which at one time operated at two places on the dial at the same time, 1010 and 1570. Also, XELO-800 on the dial, mail address "Clint, Texas" (where George Gobel got his start! - ERC), XENT-1140, XED-1050, XER, later XERA, and the Baja California stations, XEMO, XEAC & XERB. They all ran "hillbilly music" and mail order items. Later, XERF took over 1570 from XEAW when its equipment was moved to Corpus Christi on 1030, by Carr Collins, whose Crazy Water Crystals had been one of the big sponsors on the border stations. Mr. Collins entered public office and donated his station XEAW to Baylor University. In the 50's, many clear channel stations saw mail order business as a way to use the all-night hours, and stations such as WAVA, WSM, KWKH, WBAP & countless others began the programming. It is still running in some areas. But, no longer do we have the genuine Pitchman who can sell refrigerators to Eskimos or charm the birds out of the trees.

Today, the only genuine Pitchmen around would be the television evangelists who can spellbind the people who are watching. But, no more do we have the delightful old "smoothies" who could convince you to send in \$1.98 for Dave Minor's Play-by-Ear Piano Course, or Jim Major's Play-by-Ear Guitar course, or a bottle of the New Peruna, or Kolorbak. No more do we hear the sound of a box of baby checks at the Post Office, being delivered because you mailed in \$5.95. The Michigan Bulb Company, Clark Gardner Nursery, Earl May Seed Company, all certainly are still in business, but their products are no longer hawked by the radio pitchmen who were certainly masters of their trade.

And Gene Nobles, who built Randy's Record Store in Gallatin, Tenn. into a million dollar business through his nightly shows on WLAC, Nashville, didn't know that he would be followed by countless ads polluting our television shows for mail-order records. The only difference is that they no longer give us the delightful "pitch" that made us want to buy back when the Pitch Men held sway.

NEXT ISSUE: PETE KMP WILL TELL US ABOUT "PERSONALITY PROFILES".

NOTE #1

We entreat you all to heed the rule of only one Musing per issue through this period of Spring and Summer when we are not publishing weekly. Kindly do not send in more than one Musing for each issue. We have the deadline dates posted up ahead, and please follow them, for we then won't have to have old out-dated Musings backing up here at 5 Anthony.

NOTE #2

We have been carrying many opinions about the pros and cons of poetry in DX NEWS, and everyone has been invited to express his/her feelings on the matter. But, enough is enough - we will continue to accept these opinions through the next TWO DX NEWSes - after that, they will be stricken out here at Provincetown. So, if you want to get in your feelings, now is the time to do it. Undoubtedly much more will be heard on this subject at the ST. LOUIS Convention.



P.O. BOX 1117  
WILLCOX, ARIZONA 85643

KEX 1190

Golden West Broadcasters, Inc.  
Golden West Broadcast Center  
4949 S.W. Macadam Avenue  
Portland, Oregon 97201

WBLO - VOICE OF SPORTS

P. O. Box 350  
EVERGREEN, ALABAMA 36401

# MEET US IN ST. LOUIS

The 1979 NRC annual convention will be held September 1-3, which happens to be the 10th anniversary of the 1969 NRC St. Louis get together. The site of this years bash will be the Noah's Ark Motor Inn located just west of the Missouri River on I-70 at the 5th st. exit in historic St. Charles Missouri. The place is within sight of the highway and is unmistakable as the adjoining restraunt is built in the shape of Noah's Ark (what else hi).

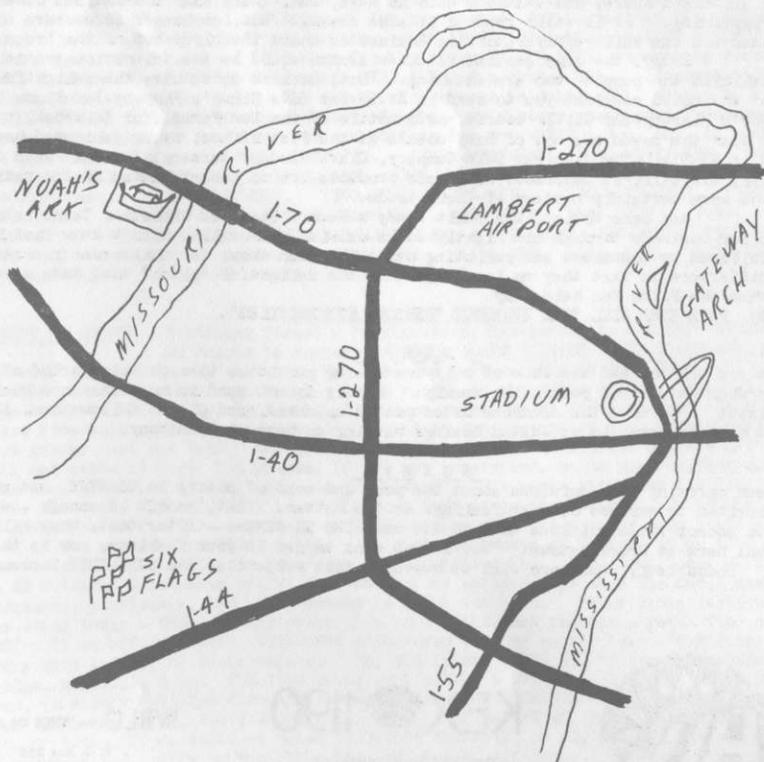
The motel has all the usual features such as gift shop, room service, limousine service to and from the airport, swimming pool, two restraunts, snack bar, and cocktail lounge. In addition they have a game room with pin ball machines, laundromat, a barber shop, heated outdoor pool and Whirlpool.

The area has several fast food chains such as McDonalds, Burger King, Steak and Shake, and Pizza Hut as well as several regular restraunts. Close by is a small shopping center and a Cinema 4 Movie Theater. Also as a special treat for Ted there is not too far away in St. Louis County Northwest Plaza which has over 150 stores (just think of all the credit cards to be applied for there, hi).

For those arriving by car St. Charles is easily reached via I-70, I-40, I-44, and I-55. By plane you will arrive at St. Louis Lambert International Airport located 10 miles east on I-70. St. Charles is also served by both Greyhound and Trailways buses.

Of course there will be the traditional tour of local radio stations etc., the auction, and the buffet-banquet. For those interested in such things tours are available of Historic St. Charles which has among other things Missouri's First State Capital.

Well that should give you some idea as to what you can look forward to, and we will keep you all updated as plans progress. Till next time this is the BI-STATE BOYS with 73's. Walt Breville, Rich Eddie, Roger Giannini, Lou Buehler.



# 1979 NRC ST. LOUIS CONVENTION REGISTRATION

Mail to: Louis Buehler, 42 Jamestown, St. Peters MO 63376

Please complete all items and mail as soon as possible, as it will make things easier for the convention committee if we have some early indication as to the number to expect.

Name \_\_\_\_\_ Phone \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

\_\_\_\_\_ I plan to attend the Convention

\_\_\_\_\_ I will stay at the motel \_\_\_\_\_ I will not need accommodations at the motel

\_\_\_\_\_ I will // \_\_\_\_\_ I will not take part in the buffet-banquet (mark one)

\_\_\_\_\_ I will take part in the tour // I will not take part in the tour \_\_\_\_\_

I will be arriving (date-time) \_\_\_\_\_ // I will depart \_\_\_\_\_

I will travel via \_\_\_\_\_ car/ \_\_\_\_\_ bus/ \_\_\_\_\_ plane/ \_\_\_\_\_ boat/ \_\_\_\_\_ bicycle/ \_\_\_\_\_ other/

The registration fee is \$15, this is to cover the cost of refreshments, hospitality room, etc. The registration fee may be paid on arrival but it would be appreciated if you paid when sending in this form.

NOAH'S ARK MOTOR INN--ST. CHARLES, MO

ROOM PRE-REGISTRATION, NATIONAL RADIO CLUB CONVENTION, SEPTEMBER 1-3, 1979

Name(s) \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Arrival date \_\_\_\_\_ Departure date \_\_\_\_\_

ROOM PREFERENCE (all rooms have queen size double beds)

SINGLES (1 double bed) \_\_\_\_\_ 1 person \$23.50 // \_\_\_\_\_ 2 persons \$28.50  
each additional person \$3.00

DOUBLES (2 double beds) \_\_\_\_\_ 1 or 2 persons \$31.00 // \_\_\_\_\_ 3 or 4 persons \$36.00  
each additional person \$3.00 Children under 12 stay free.

