



DX NEWS

ISSN 0737-1659
the magazine of the
National Radio Club

SINCE 1933

VOLUME 51 ISSUE 14 JANUARY 16, 1984

Boy, I did it again. Last weeks' cover page contained a few errors, the test was scheduled for SUNDAY not Monday as stated, I hope everybody followed the date and not the day... Sorry if this caused problems. 2nd mistake is that the NRC sponsored ANARC 1985 convention is for July 19-21 not July 20-22. Opps!

The long awaited "Formats" column makes its scheduled appearance this issue, you can check it out on page 15 let's see some support.

And as long as we've got the space this issue, we've thrown in two (2) order blanks from the info and reprint booklet. So many of you have asked Ken, Pub Center boss, so now ya gottem, hi.

1984 HAP AUCTION needs many more products to auction off at the 1984 ANARC Convention in Toronto. If you have pennants, stickers, decals, pens, pins, mugs, etc by all means donate them to HAP at 47 Prospect Place, Bristol, CT 06010.

Miller Publishing is offering a \$2.00 discount on copies of "Tune in the World" by Ken MacHarg; Netherlands World Broadcasting by Robert Haslach and The Shortwave Book. You can now get each book for just \$9.99 plus \$1.50 postage (\$2.50 postage outside of the U.S.). That's two dollars off the original price of \$11.99. Miller Publishing's books have received good reviews on a number of stations HCJB's "DX Party Line", Radio Netherland's "Media Network" and Radio Earth to name a few. They have also received favorable reviews in the ANARC Newsletter and Monitor Times. Send your check or money order to Miller Publishing, 424 W. Jefferson St., Media, PA 19863 USA.

Also from Miller Publishing, they are interested in reviewing new manuscripts on any aspect of the radio hobby for possible publication in 1984. If you have a manuscript or even an idea for one, contact Miller Publishing. Writing experience is not necessary, however a strong knowledge of the hobby is mandatory.

INDIAN STATION ADDRESS LIST Containing nearly 180 addresses and verification signers. This list is available for 6 IRC's and will be shipped to you via air mail. Order from: Indian DX Club International, GPO Box 646, Calcutta - 700 001, INDIA.

1983 CONVENTION PHOTO 8" x 12" color photo of the Connecticut Convention. \$5.75 includes mailing. Orders will accepted up to JANUARY 31st. Send to: NRC PHOTO, P.O. BOX 24, CAMBRIDGE, WJ 33523. This product only, will accepted here, all other orders go to the PUBLICATION CENTER. Do not combine photo order with other NRC products.

CPC TESTS (TIMES ARE E.L.T.)

Jan 15 WBBB-1580 Mount Dora, FL 0100-0200 Skw NO Test will consist of Big Band and other music w/ frequent IDs. Reports to: Ken Courtright, GM, WBBB Radio, Box 192, Mount Dora, FL 32757. PREPAID CALLS ONLY to: 984-383-1580. (NOTE: If problems occur, the test will be rescheduled same time the following week) Arranged for the NRC by: (a newcomer, hi) John R. Malicky. (Thanks John-HO)

LOOK INSIDE

**** THERE WILL BE NO Musing COLUMN THIS ISSUE ****

- | | | |
|---------------------|------------------------|--------------------------------|
| 2....AM Switch | 11....Freq. Check List | 17....More Ferrite Loop Info |
| 3....DDXD | 14....Top End | 19....Reprint/Pub Order Blanks |
| 7....IDX | 15....Formats | 23....Sports Network |
| 10...NRC NEW BOOKS! | 16....Ramblin' Back | 24....Your Name !!!! |

THE WORLD'S OLDEST AND LARGEST ALL MEDIUM-WAVE DX CLUB

AM SWITCH

JERRY STARR
c/o WSRD RADIO
401 N. BLAINE AVENUE
YOUNGSTOWN, OHIO 44505

CALL LETTER APPLICATIONS/GRANTS: NONE

APPLICATIONS FOR NEW STATIONS: NONE

GRANTS FOR NEW STATIONS:

1040 TN Powell: 5000 D3

APPLICATIONS FROM EXISTING FACILITIES: NONE

GRANTS TO EXISTING FACILITIES:

660 KGDP CA Santa Ynez: move XR
700 KGRV OR Winston: change XR location (CP; not on air yet)
800 KLTT CO Brighton: power to 1000 D3
860 KISD OR Medford: 1000/1000 U1 on 880 kHz, move to Phoenix, OR
1040 KPOI HA Honolulu: move XR
1060 WALD SC Walterboro: to 1080 kHz 2500 D1 (1000 CH)
1250 KLLK CA Willits: change XR location of this unbuilt CP
1260 WSUA FL Miami: changes in antenna system
1300 WFFG FL Marathon: power to 2500/2500 U3
1340 WBLB VA Pulaski: changes in antenna system, reduce daytime radiation
1350 KOOV OR Ashland: to 1230 1000/250 U1, move to Talent, OR
1360 KUIK OR Hillsboro: becomes 1000/1000 U2
1370 WGNW WI Pewaukee: becomes 500/500 U4, move to Sussex, WI
1480 WMAX MI Grand Rapids: becomes 5000/5000 U2, move to Kentwood, MI

OTHERNESS:

600 WSJS NC Winston Salem: dismissed application to change antenna system
660 *New AZ Window Rock: address will be Box 308, Window Rock, AZ 86515
720 -- MA Bellerica: returned application for new station
770 -- MO Raytown: returned application for new station
-- OH Nelsonville: returned application for new station
780 WIVV PR Vieques: DISMISSED application to move here from 1370 kHz
840 -- NV Gardnerville: DISMISSED application for new station
880 KKMC CA Gonzales: returned application for higher night power
890 -- TN Frayser: returned application for new station
910 WHSM WI Hayward: returned application to add 500 watts night
1000 KXRB SD Sioux Falls: DISMISSED application for 10000/2500 U4
1060 WNPC TN Newport: returned application to move to 1180 kHz
1140 WRNA NC China Grove: returned application to move to 770 kHz
1240 K8MY MT Billings: owner DONATED the station to Eastern Montana College, will become non-commercial, including reading service for blind
1590 WPLW PA Carnegie: returned application to move to 660 kHz

Broadcasting Magazine does it again: If you are a subscriber to Broadcasting and thought that their For the Record had committed every stupid mistake possible, think again. Do the call letter applications and actions in the 1/2/84 issue look vaguely familiar? No, it's not deja vu, Broadcasting reprinted the entire call letter section that first appeared in their 10/24/83 issue, all 63 call actions just as they appeared then. What next????? Doesn't ANYONE proofread this stuff?????

73 and Good DX,

Jerry & BKF
Jerry Starr & Buffalo K. Foonman

REMINDER: For those of you that write overseas, we remind you that all the clubs within ANARC, of which we are part, have agreed to protest to those countries that continue to practice intentional jamming of international shortwave broadcasts. We ask that you either not report to station in those countries anymore, or if you do, please send along with your correspondence a protest to their continued practice of intentional jamming.

KIML
BROADCASTING
COMPANY
1270
Gillette Wyoming 82716



P.O. Box 6374
Kansas City, MO 64126

DOMESTIC DX DIGEST

DAVE SCHMIDT
42 CHELWYNNE RD.
CASTLE HILLS
NEW CASTLE, DE 19720

Here is the NRC column which matches the excitement of Chuck Hutton singing the state song from Georgia! When sending your items in, one side of the paper, type or neatly write, EST, leave space between items, etc. Blast off:

DX TESTS:

890 KBYE OK *0130-0200 weak w/oldies. (TC-TN)
*last 15 minutes w/oldies, good at s/off. (DM-MI)
*rock oldies, NRC mention, ID after each selection, phone number given. (EB-MO)
*0418 good w/lots of oldies, WLS on shortly at 0518. (JPH-OK)
*Heard. (JB-NY)
*Good w/frequent ID's, telephone #, address & oldies. (JP-MI)
1140 WAGB AL *0100-0200 w/MoR Christian music, two alternating ID's, tone. (TC-TN)
*like a local w/MoR Christian Music, ID's every 2 min. (EB-MO)
*Pretty good w/XEMR, mention of Motorola Stereo test. (JPH-OK)
*Heard. (JB-NY)

KWK RADIO
DOUBLEDAY BROADCASTING CO., INC.

SPECIAL:

990 WYAT LA NEW ORLEANS - 12/25 1900 weak w/s/off, ID's as 99 WYAT and address given as 1639 Chateau Blvd. (JP-MI)
1170 WXAX SC LEXINGTON - Noted 12/25, 12/26, 12/27, in all day o/WSNE w/CW music, "Your Place in the Country". (GM-SC)
1520 WKRE VA EXMORE - 1/1 1712 s/off good w/no SSB, mention of "KRE-FM", per call to station, add. PO Box 220, Exmore 23350, reports to R J Shingleton, 2nd day on these calls. (WIZ-CT)
1530 WDBY MI LAFESER - Has not been heard lately, was a former semi-local, just WCKY on the freq. now so may be off the air. (JP-MI)

FREQ. CHECK:

2nd Thu....1580 KAMI 11/10 0116 tentative w/tone, partial ID, very weak w/ CBJ TT mostly atop. (JP-MI) Yep, they have an f/c, Jim. (DS)

HUTTON MONITORING pulled a last minute change on WCHE w/the 1984 f/c sked, we'll now be on the 3rd MM of the month, 0030-0040. I believe this will also change his other MM checks done on the 4th. We should have an updated list in the next couple of weeks.

MIDDAY - MIDNITE:

560 KWTO MO SPRINGFIELD - 12/4 1800 clear w/WIND w/time check, ID, Ai news and CW music. (JP-MI) WIND made the signal drift? (DS)
570 KRQX TX DALLAS - 12/25 2254 "K Rocks" ID, rock oldies, fair o/WMAX. (EB-MO)
600 WME IA CEDAR RAPIDS - 12/26 1600 local news mixing w/WRTH-590. (EB-MO)
610 KILT TX HOUSTON - 12/21 1645-1647 weak but steady signal w/local news, promo for Christmas Catalogue and Christmas music. (WW-TX)
620 WSKQ NJ NEWARK - 12/10 2351 weak in/out w/WRJZ, no WTMJ w/ads in Spanish, super-hyper anc'r. (JP-MI) Drugs...
630 WKBX GA SAVANNAH - 12/17 1724 ID as "63 KB" w/weather, CW music, in CEFCO null, fair signal. (JP-MI) Deeps religion, eh? (DS)
640 WOI IA AMES - 12/26 1535 talk program o/WMSO, fair. (EB-MO)
710 WGBS FL MIAMI - 12/17 1727 weak w/PSA, weather, ID, in WOR null, some splash from WLW-700. (JP-MI) The audio saw mill? (DS)
730 WFMW KY MADISONVILLE - 12/19 1807 weak in CHR null w/KY news, ID. (JP)
760 KNTL AR SHERWOOD - 12/21 1730 weak but steady w/ID into religious program. (WW-TX)
770 KOB NM ALBERQUERQUE - 12/21 1733-1735 good w/promo for Crazy Christmas Carol show on 12/24 then business report. (WW-TX)
WEW MO ST LOUIS - 12/21 1735-1745 very weak but steady in KOB null w/EZL Christmas music into full data s/off w/SSB. (WW-TX)
810 UNID 12/21 1720-1726 fair steady signal w/lots of WBAF splash w/rock hits and oldies, heard at least 3 different songs but no ID, eventually lost to KCMO. Who? (WW-TX)
850 WJYV MS FOREST - 12/21 1748-1800 fair, steady signal topping KOA, B/Sol music, ad, PSA then quick s/off. (WW-TX)
KRPT OK ANADARKO - 12/21 1637-1639 fair, steady signal w/local ad, promo for Country Christmas Music special program. (WW-TX)
KPUO MO CLAYTON - 12/19 1754 PSA, anot's for church's in St. Louis area. Fair signal. (JP-MI)
880 WMDB TN NASHVILLE - 12/19 1717 ad w/mentions of Nashville, ID, good signal. (JP-MI)

WTAX - WDBR
P.O. BOX 3166
SPRINGFIELD, ILLINOIS 62708

900 WGOX AL MOBILE - 12/17 1803 weak w/B/Sol format, long pause between end of program and s/off (couldn't find the s/off cart?). (JP-MI) No, found the cart, lost the cart machine! (DS)

920 KDHL MN FARIBAULT - 12/20 2224 fair/poor on WGNU null w/sports scores, CW music, ID. (EB-MO)

930 WKY OK OKLAHOMA CITY - 12/4 1816 WEOJ nulled, noted w/fair signal w/ID, female anc'r, soft jingle, MoR music. (JP-MI)

940 WYLD LA NEW ORLEANS - 11/27 1851 very weak w/concert promo, ID, B/Sol/Disco music, in null of WWJ-950 which wasn't east! (JP-MI) 12/21 2034-2036 weak/fair w/usual Mexican nulled, atop briefly w/B/Sol music, phone # for give away, PSA and contest winner. (WW-TX)

WECO TN WARTBURG - 12/24 1315 late s/on due to power outage at xtr, on w/1000 watt standby xtr w/low modulation due to bad tube, audio weak and distorted. (TC-TN, first hand report as was on the air at the time!) We miss nothing on a slow day-hi!

960 KGKE TX SAN ANGELO - 12/12 1809-1831 local news and ads, Paul Harvey, sports, good til tune out. (JPH-OK)

970 WAVG KY LOUISVILLE - 12/21 2049-2053 poor in mess w/fading, Louisville Cardinal basketball, promo for pick the score contest. (WW-TX)

WFLA FL ST. PETERSBURG-TAMPA - 12/21 2228-2232 surfaced w/poor/fair signal w/NBC Talknet, promo for free Christmas calls, other station talk shows w/IDs. (WW-TX)

980 WPHG VA BRISTOL - 12/19 1702 ID as "98 WPHG" w/sports news, rock music, weak signal. (JP-MI)

WERY NY TROY - 12/23 1733 fair w/ID, ad, sports news w/WRC, rare. (JP)

WAAA NO WINSTON SALEM - 12/17 1716 good w/ad, request for dedications, black gospel music til s/off. (JP-MI)

1010 KBBW TX WACO-MARLIN - 12/12 1803-1808 local news, World of Sports from Texas State Network, faded to KEVK. (JPH-OK)

1030 KTWO WY CASPER - 11/27 1845 weak til pattern change w/Broncos football, w/KCRA, WBDX nulled, WBE not heard. (JP-MI)

1040 KPBC TX DALLAS - 12/19 1806 poor w/WHO w/ads, ID, religion. (EB-MO)

1050 KMIS MO PORTAGEVILLE - 12/26 1611 u/WDE w/local news, weather. (EB-MO)

1060 WHPB MI BENTON HARBOR - 12/26 1619 Paul Harvey, local ad, weather, rock oldies, good/fair in WMCL null. (EB-MO)

1070 KPDI KS WICHITA - 12/21 2240-2246 poor/fair but steady in tight KRLL null w/CW music, weather, sports and mention of wind chill of 53 below. (WW-TX) Man, that'd freeze the filament! (DS)

WIBC IN INDIANAPOLIS - 11/24 1311 in KHMO null w/contest winner, ID. (EB)

WTSO WI MADISON - 12/26 1634 xint w/talk on hockey, ID, CW music and local ad. (EB-MO)

1100 KREX CO GRAND JUNCTION - 11/27 1906 very weak way u/WWWE w/easy MoR music, ID. (JP-MI)

1130 WEGY MN MINNEAPOLIS - 12/13 1721 rare w/report on snow, ID and faded. (JFH-OK)

1140 WRVA VA RICHMOND - 12/21 2251-2310 2251-2310 very weak but audible w/Mexican nulled w/religious program, hymns, NBC news, local/state news/weather, Wall St. Report, 1st time heard here. (WW-TX)

1150 WAYI WI CHIPPEWA FALLS - 12/19 1814 alone w/ID, reminder, EZL music. (EB)

1160 WKOM KY HAWESVILLE - 12/17 1842 good o/WJDD w/many ads, ID and CW music. (JP-MI)

1210 KGIN OK GUYMON - 11/29 1816 fair w/CW music, ID, ad. (JP-MI)

1230 WSSO MS STARKVILLE - 12/26 2147 CW music, ID, weather o/mess, fair signal. (EB-MO)

1260 KPAB TX TAYLOR - 12/21 1633-1636 weak but steady w/some KSSA w/many local ads, Christmas music. (WW-TX)

1300 WKGC KY LEXINGTON - 11/28 2329 weather, CW music, soon lost to WOOD. (EB)

1310 WVIP NY MT KISCO - 12/26 1405-1432 Top 40 music, Radio 13 ID's, few ads, no sign of WJKK, WKMG off, some WNYM-1330 splash, finally bagged one of my closest unheards! (PRM-NJ) Me, too! (JS-NY)

WNSY VA NEWPORT NEWS - 12/26 1630-1636 good w/ad, end of news and weather, oldies/rock music, 1st time on new calls. (PRM-NJ)

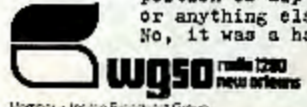
1350 XCAR TX CLARKSVILLE - 12/21 1622-1623 fair, steady signal, local news, gas service curtailment item, weather, CW Christmas music. (WW)

WEZU NH LACONIA - 12/24 1612 on top w/anc't for job at radio station, must have radio experience, etc. (JP-NY) Tell GG... (DS)

1370 KPRO TX LONGVIEW - 12/21 1616-1619 weak but steady w/local ads, details on \$1370 cash giveaway, pop music. (WW-TX)

1380 KSKO OK LAWTON - 12/21 1612-1615 weak but steady w/pop music, ads, "Best Music" slogan, ID's as "13-K". (WW-TX)

1400 UNID 11/20 2353 u/WQBH w/CW music, ID as "The Big Country Express", no calls given, address given but distorted audio didn't help, portion of zip code was "48-". Off at end of record w/no ID or anything else, could this have been a pirate? (JP-MI) No, it was a harmonic from your neighbors ice box! (DS)



1410 WUNI AL MOBILE - 12/19 2320 surfaced briefly w/Gulf Coast weather, ID, CW music, signal faded in/out for 20 min, period. (WW-TX)

KQAM KS WICHITA - 12/19 2328 just above WUNI w/ID w/"Where All The Good Songs Have Gone" slogan and rock oldies, regular but never at good level. (WW-TX)

1420 KTOE MN MANKATO - 12/21 2341-2343 weak w/KLUF w/mention of temp. as 7 below and pizza give away. Shoulda called! (WW-TX) Yes, it'd be well frozen by the time it got to you, too! (DS)(JPH)

1430 WINI IL MURPHYSBORO - 12/15 1908 o/KBTN w/news, weather, ads, stocks.

KESB TX GLADWATER - 12/19 2339-0002 TX State Net. news, football game, ID as "Dallas Cowboys Superstation" weak in KELL null, considering this game, this was a better catch than they made! (WW-TX) 12/19 2351 someone here w/CW music, surfaced briefly while waiting for ID on above. (WW-TX)

UNID KELI OK TULSA - 12/19 2359 good w/some fading, Top 40 music, 14 K slogan, "1st w/new music" slogan, dominant here. (WW-TX)

1480 OKAN ON NEWMARKET - 11/24 1738 fair w/end of news, female anc'r, rock music. (JP-MI)

1530 WRXV ME AUBURN - 12/26 1640-1711 w/CW music, Radio 15 ID's, way o/WGKY at times. Per call to station, using 1000 watts until equipment for (much lower) post sunset power arrives, on til 1800 in December. (PRM-NJ) I sorta think they're wrong w/this, unless they were granted "extended hours". (DS)

1550 WRBX NC CHAPEL HILL - 12/26 1659 w/full data s/off, no SSB, good. (PRM)

1570 WBSO SC BENNETTSVILLE - 12/24 1746 good w/warnings on cold temp's, ID and Christmas music. (JB-NY)

1570 WFRL IL FREEPORT - 12/26 1813 good w/news, sponsored weather, "All American Country" slogan. (JP-MI)

WCLE TN CLEVELAND - 12/17 1730 fair w/s/off o/toughie CHLO, mentioned operation on a Mexican clear channel. (JP-MI)

1580 KNED TX SEGUIN - 12/15 1802 fair/poor w/KPDX/XEDM/others w/local news, ads, CW music. (JFH-OK)

1590 WASY ME GORHAM - 12/10 2330 weak in partial WAKR null w/oldies music, w/ID's, 1st station from ME. (JP-MI) Pattern out? (DS)

WQIQ PA CHESTER - 12/4 1835 surfaced w/ID than gone to WAKR. (JP-MI)

WJBT NY BROOKPORT - 12/23 1800 fair w/s/off, gave address and mention programs were mechanically reproduced. (JP-MI)

1600 WIXY MA E LONGMEADOW - 12/20 1740 weak w/WAAM w/ID, CW music. (JP-MI)

MIDNITE - MIDDAY:

560 XLVI TX BEAUMONT - 12/26 0055 fair o/WIND w/ID, wish for a Merry Christmas by anc'r and CW music. (JP-MI)

590 WOW NE OMAHA - 12/21 0043 good w/sports into Music Country net. (TC)

600 KTBB TX TYLER - 12/27 0852 fair w/WMT w/road condition warnings, closings, AM-6 ID's and ABC news. (JFH-OK)

620 WRJZ TN KNOXVILLE - 12/23 0120 noted on OC, assumed WTKM u/weak w/talknet. (TC-TN) New AN show....silence! (DS)

660 *WNBC NY NEW YORK - 12/21 0105+ noted w/TT this AM. (PRM-NJ)

720 *UNID 12/25 0759-0949 TT w/WGN until WGN fade, stopped 1 minute at 0819+, called everyone on this freq., help? (JFH-OK)

740 *UNID 12/23 0123-0130 some airhead here w/strong TT, off 0130 w/no ID, may have been WSVQ by strength of signal. (TC-TN) Airhead? Is that any relation to a bubble head? (DS)

810 UNID 12/26 0056-0106 steady and mostly readable signal w/KCMB nulled and little WBAP splash w/rock oldies, both KCMB/WBAP went to net. news at 0100 so splash increased, not ID'ed. (WW-TX)

860 *UNID 12/23 0130-0135 some clown here w/TT and no ID's. (TC-TN)

900 KKOW KS PITTSBURG - 12/23 0130-0135 weak u/UNID TT w/news. (TC-TN)

CHML ON HAMILTON - 12/19 0543-0600 fair w/hockey scores and other sports, music, Radio 900 ID's and news. (JFH-OK)

920 CKNS ON ESPANOLA - 12/5 0625 good w/farm news, CW music, ads. (JP-MI)

930 *WPAT NJ PATERSON - 12/20 0145 noted w/TT this AM. (PRM-NJ)

970 WDAY ND FARGO - 12/26 0004-0007 weak, fading but readable w/NBC news, PSA and weather report, heard other times w/better signal. (WW)

990 WNYR NY ROCHESTER - 12/5 0437 ID, sports scores, clear but weak. (JP)

CBW MB WINNIPEG - 12/26 0158-0200 xint way o/KGTM w/end of Christmas music special w/credits to production team. (WW-TX)

1000 UNID 12/26 0020-0030 marginal signal w/severe fades w/KTOK/Mexican w/what sounded to be local church choir w/hymns and spirituals, tuned back 0110 and caught Rev. Ike, suspect WCPL, Rev. Ike isn't classy enough for KOMO. (WW-TX) WCPL, Wally. (DS)

1160 *WJJD IL CHICAGO - 12/22 0100 s/off noted then back w/TT 0105, KSL noted w/basketball game at their s/off. (TC-TN)

1170 WAMB TN DONELSON - 0803 12/19 Mutual news, local news and weather, Big Band music, way o/KV00. (EB-MO)

WIBC - WNAP
2455 NORTH BLAINE STALLEY
INDIANAPOLIS, INDIANA 46208



6

1190 KHAD MO DESOTO - 12/19 0714 good w/weather, school closings, CW music, ID's. (JPH-OK)

CHTN FBI CHARLOTTESTOWN - 12/5 0423 fair w/hockey scores, rock music, wrestling w/WOWO but didn't win. (JP-MI)

1230 WECK NY CHEEKTOWAGA - 12/4 0117 popped up for an ID, soft jingle then into talk program. (JP-MI)

1270 OFOT PQ ALMA - 12/16 0245 good w/mostly English Top 40, noted one jingle/ID o/WXY2's King. (PRM-NJ)

1280 WQUE LA NEW ORLEANS - 12/21 0138-0144 good w/program promo, concert info, rock music. (TC-TN)

1290 WCBL KY BENTON - 12/19 0808 fair/poor w/ID, weather o/WIRL. (JPH-OK)

WIRL IL PEORIA - 12/19 0819 fair w/WCBL w/talk program, ads, ID's, news and editorial. (JPH-OK)

1320 WJAS PA PITTSBURGH - 12/23 good w/ID, MYL. (TC-TN)

1340 WKCB KY HINDMAN - 12/23 0043-0047 weak in mess w/sports promo, ID for AM and PM 101.7. Christmas music. (TC-TN)

1350 WSMB LA NEW ORLEANS - 12/26 0118-0123 good on normally jammed freq. w/open line talk show, ID between calls. (WW-TX)

1400 KTFS TX TEXARKANA - 12/18 0413 fair/good w/rock oldies, promo, ads. (JPH)

1420 WOC IA DAVENPORT - 12/26 0146 quick ID surfaced o/KTOE, didn't hear anything else, assume carrier was on for an ET. (WW-TX)

KTQE MN MANKATO - 12/26 0147-0150 moderate, steady signal w/KLUF again, pop music, weather for various MN citiss, was hoping for a pizza giveaway...hungry. (WW-TX) Yes, always! (DS)

1430 WJRB TN MADISON - 12/25 0056 weak w/ID as FM 100 & KZ Country w/female anc'r, WWRK s/off early, o/WIRE. (JP-MI)

1450 CFJR ON BROCKVILLE - 12/26 fair w/heavy WJIT splash w/local ad 0211, Top 40 music, no sign of WCTC, not 1st time heard either. (PRM)

1460 KSO IA DES MOINES - 12/19 0011 briefly w/CW music, poor signal. (WW-TX)

1480 WAME NC CHARLOTTE - 12/19 0200 noted briefly w/ID, first time heard. (JB-NY)...12/23 0050 weak w/ID, Christian music u/B/Sol music, presumed to be WRDW. (TC-TN) Likely....but then... (DS)

1490 WLCX WI LACROSSE - 12/26 0210 weak w/promo for WJXR (FM) Country Club, evidently FM simulcast. (JP-MI)

1510 CKOT ON TILSONBURG - 12/14 0746 xint w/s/on w/Oh Canada! (JB-NY)

1520 *WKBW NY BUFFALO - 12/20 0150+ noted on w/TT this AM, was hoping it was WCHE. (PRM-NJ) Fairy tales can come true, they can happen to you.....to quote a familiar tune! (DS) (JPH-OK)

1530 KBWO TX NEW BOSTON - 12/16 0707 weather, gospel music, ID w/WCKY/KECK.

*WRBX NC CHAPEL HILL - 12/30 0045-0125+ ET w/OC, TT, CW music, carrier on/off o/u WCKY, muffled ID noted 0120. (DS-DE)

1560 *WBUK MI PORTAGE - 12/19 0157 per tips from ERC and JB, noted on ET w/ID into vocal music, called and shocked due to large null toward east. (PRM-NJ)...12/19 0131 good w/ID and oldies on ET, asking for reports. (JB-NY)

1580 *WZKY NC ALBERMARLE - 12/4 0147 ET w/new audio console, requesting reports, weak u/CBJ TT. Per call, was running only 168 watts during test. (JP-MI) So that's why they were so weak! (DS)

1600 WNST WV MILTON - 12/17 1006 good w/ID and tri state weather from local weather service office. (JB-NY)

*KCRG IA CEDAR RAPIDS - 12/19 0528-0541 ET w/TT, ID, music. (JPH-OK)

DITTO:

JOHN HERMAN reports still no move on KHOG-1440 to 1030, still waiting for parts. (The new American past time!)

THE GANG: FAVORITE CALLS

TC-TN/Tom Connatser, Seiverville, TN/Superadio
 PRM-NJ/Paul Mount, Teaneck, NJ/Sony STRVX-4, SM 2
 DM-MI/Doug McAbee, Goodrich, MI/TRF
 EB-MO/Eric Bueneman, Hazelwood, MO/DX200, SM 2
 WV-TX/Wally Nawro, Garland, TX/RF 2800, Radio West Loop
 GM-SC/George Mulfinger, Greenville, SC/R390A
 JPH-OK/John Herman, Vinita, OK/Philo Portable
 JB-NY/Jerry Bond, Rochester, NY/HQ140XA
 JP-MI/Jim Paige, E Detroit, MI
 DS-DE/ME....not Charlie Slezak! HQ180A, SM 2, Superadio, short IW

Next week, another frozen report from the MWT from Bill Hepburn...brzzzz!

73's - Good DX!



INTERNATIONAL DX DIGEST

CHUCK HUTTON
 1035 LATHAM ROAD
 DECATUR, GA 30033
 (404) 633-1198
 BEFORE 2300 ELT

7

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

173 USSR Kaliningrad etc. 12/10 USSR anthem 0202, poor sig. (Vernon)

236 USSR Arkhangelak etc. 12/10 USSR anthem 0202, 12/12 and also 1423 male with RR talk, fair signals. (Vernon)

657 USSR Murmansk 12/4 1619 very big carrier, audio only fair, male with talk. (Vernon)

693 ENGLAND BBC Droitwich Radio Two 12/10 promo for "Two Fennies" and other shows on BBC-TV during the week. (Vernon) (Reagan and McDonald I would assume....CH)

702 UNID 12/4 1620-1631 violin and guitar instrumental AA mx w/male snaccr, very poor signal. (Vernon)

711 LIBYA Ghadames 12/10 likely "Voice of Arab Homeland" 0142, male w/AA wailing, 0143 male and female anners to 0145 then another male with talk post 0153. Poor but steady readable signal. (Vernon)

729 UNID 12/4 1601 male with AA singing then female with talk n/instrumental AA type mx. Poor signal, can't help but suspect UAE. (Vernon)

756 WEST GERMANY DLW Hraunschwieg 12/12 0118 classical mx // 1269 good. (Vernon) 12/8 0340 chair mx // 1269, good. (Vernon)

765 UNID 12/6 0342 male and female anners with talk but didn't quite top the noise. (Vernon)

774 SPAIN RNE Caceres etc. 0329 male w/SS talk then instrumental mx. Fair signal. 12/10 0233 male and female anners w/SS talk. (Vernon)

801 USSR Leningrad 12/1 1604 female then male snaccr w/RR talk, good for short time. (Vernon) 12/10 0303 noted w/USSH anthem, good. (BV)

820 ALASKA KCBF Fairbanks 12/1 0424 asking for reports from outside the Fairbanks core on new 50 kw power, KCBF would reply with a "Window Dot" Zip is 99707, this during RS. (Vernon) I guess people all over Alaska must be flooding them with letters so they can get their window dots. You must have noticed the shortage on postage stamps created by the rush.....CH

820 COLOMBIA Cali 12/26 SS talk 0630 mentions Caracol; later pips and Caracol Cali mentioned 0700. (Mount)

837 FRANCE Nancy Culture 12/11 1424 female w/FF talk, poor sig. (BV)

850 GREENLAND Upernavik 12/1 also 12/2 0300 noted with choir (presume Greenland anthem as not Danish) then 0303 GC, seems regular s/off time. (Vernon)

860 DOMINICAN REPUBLIC 12/26 good 0527-0530 and 0757-0805 w/fast mx in SS, mentions of R. Clarin during songs in SS. (like some FM stations here do with their call letters), long Clarin jingle 0804. Mostly alone this AM. (Mount) I don't care about your personal problems that AM or anyother, hi.....CH

873 USSR Mezen 12/11 1730 male with RR type play, KSKO QRM splash. (Vernon) 12/6 0407 female with RR talk, //1125 Program Three. (Vernon)

882 ENGLAND H. Wales Washford 12/2 0616 male mentioning 2.5 million Christmas tree sales this year. (That's a big sale. Hope he got a real nice commission. Wonder how the other salesman with the company did???? CH) Good signal. (Vernon)

891 UNID 12/7 0250 male w/AA singing, fair sig. (Vernon)

909 ENGLAND H. Two, Moorside Edge 12/2 0617 male with "Pause for Thought", then choir mx, good. (Vernon) They had to stop and think before they could sing??? CH

916 USSR Mezen 12/6 0408 male and female singers, xint w/920 splash, // 945 Program Two. (Vernon)

927 BELGIUM BR71 Wolvortom 11/11 1122 male via phone link then male in studio, ballad mx, LD service, fair signal. (Vernon)

936 WEST GERMANY RB Bremen 12/3 0240 instrumental mx then female w/EG talk, poor signal // 973, 1017 w/ARD program. (Vernon)

940 GUSA 12/20 SS talk, man saying "Radio Reloj" and Morse RR just like that 1270 does 0715. (Mount) Take the big plunge guy and call this a definite reception.....CH

945 USSR Latvia Riga 12/6 0408 light mx, male and female singers, poor signal // 916. (Vernon) 12/10 0401 female with RR talk, fair signal. (Vernon)

954 CZECHOSLOVAKIA Erno 12/2 0621 band jazz type mx, xint sig. (BV)

954 TURKEY R. Trabzon 12/6 0409 male AA type singing then female snaccr briefly more AA singing, fair signal to 0415, QRM high, Turkey not noted on 1017, 1062 but Holland and Denmark xint. (Vernon)

954c TURKEY K. Trabzon 12/10 0320 group of women w/AA style singing, similar singing noted till 0327 then lost. Fair to zero signal, did not seem to be // 1002. (Vernon)

954 UNID 12/4 1643 AA guitar type mx, 1644 female w/AA type singing w/Omn-1413 and SA-1440 in, I had visions of Qatar here. Poor sig briefly. (Vernon)

954 CZECHOSLOVAKIA Brno 12/12 Instrumental mx, 0445 six pips, male with talk, good signal. (Vernon)

963t FINLAND Turku 1 12/11 1648 soft piano mx, fair sig for a while. (BV)

963 INTERNATIONAL WATERS R. Caroline 12/10 0259 male enncr apologist for background noise as ships engines going due to "unfriendly ass". Noted on all night now. (S. Vernon) (To ask for help if they start to sink again, no doubt-CH) Appeared to be on 24 hours 12/1 and 12/2 but Caroline theme s/off noted 12/6 0300 but noted on at 0345. 12/7 caught the ID, male talk from a show, then "Caroline 319" ID and rr mx. (Vernon)

972 WEST GERMANY NDR Hamburg 12/14 0119 "Sweet Georgia Brown" mx // 936, 1017 ARD pgm. (Vernon)

990 GREENLAND Thule 12/11 1224 female w/Greenlandic talk // 850 and a pest now! (Vernon) 12/5 2014 that is 1218 LT, female with Greenlandic talk, // 850. First time here, no LPRT GRM for once. (Vernon)

999t EAST GERMANY BR Weimer etc. 12/3 0251 band mx then male enncr w/what sounded like UU talk but was not // SDDR-783 or BDK-1044, fair-poor signal to 0257. (Vernon)

999t ITALY RAI Mimini 12/10 0205 female with Latin type talk, thought SS but II possible, wavy signal, only this fits though not listed as on. (Vernon)

999 USSR Moldavia Kishinev 12/13 0509 male and female enncrs w/talk, xint sig for short time. (Vernon) Kishinev 12/2 0710 male with RR talk, xint. (Vernon)

1000 USSR Byelorussia Slonim/Uahachi 12/4 1729 noted w/Mayak IS, poor signal. (Vernon)

1026 AUSTRIA ORF Graz-Dobl etc. 12/11 1633 male with US talk, fair signal. (Vernon)

1026** ENGLAND BBC unid Radio two 12/10 0425 female singer, 0429 male enncr then lost, 0434 mx and male enncr // 852 Radio Two. Fair to good signal at 0434, only BBC locals Cambridgeshire/Jersey listed!! (Vernon)

1026 USSR Byelorussia Mognilev etc. 12/4 1729 noted // 1005, poor. (BV)

1035 PORTUGAL 12/12 male enncr w/EE rr mx, noted on at 0310, is this 24 hours now? (Vernon) I note the Portuguese stns often running AM or very late-CH

1035 UNID 12/4 1550 weird abstract type piano mx, good signal for short time. (Vernon)

1044 EAST GERMANY DDR Dresden 12/10 0242 very weak IS w/Morocco, then massive IS 0243 as power increased. 0245 male enncr w/temps, etc. and Morning Magazine mentioned. 12/11 1733 Christmas mx and also has exercise programs, 0355 and 0455 w/female and lone piano weekdays. Sig seems better here. (Vernon) 12/1 0630 male with talk then "Country Road" EE c/w ES, xint. (S. Vernon)

1053 ENGLAND BBC Droitwich 12/12 0900 pips, Radio One SID then male with news at midnight, xint. (Vernon) 12/2 Radio One, but Radio Four promo noted 0612 then traffic report, good. (Vernon) Glad you liked the traffic report....CH

1053 ROMANIA Iasi 12/6 0357 noted w/anthem, fair sig. (Vernon)

1062 DENMARK Kalundborg 12/10 0408 Viennese waltzes, 0409 female via telephone, TC, similar to Gronlands Radio without the pip. (Vernon) I should have known that...CH) 12/6 0356 is repeated many times, xint. (Vernon)

1062 TURKEY Diyarbakir 12/10 0323 AA type instrumental mx then whole group sang, very poor signal in for a short time. (Vernon)

1071 CZECHOSLOVAKIA Prague etc. 12/14 0216 light orchestral mx to 0220, 0230 6 pips and male enncr, good sig at times. (Vernon)

1098 CZECHOSLOVAKIA Bratislava 12/12 0545 6 pips and female enncr, poor signal. (Vernon)

1125 USSR Leningrad 12/6 0403 female w/RR talk. Was // 873 Program Three, good signal. (Vernon)

1125 UNID 12/4 1606 abstract piano type mx similar to what was on 1035 kHz earlier. (Vernon) Then according to the formula you would have heard it next on 1215 at 1622, hi-CH

1125 UNID 12/11 1745 classical piano mx, xint signal. (Vernon)

1134 USSR unid 12/11 1721 male enncr, brief mx, 1729 Mayak IS, very poor signal. (Vernon)

1143 USSR Kaliningrad 12/4 1633 female w/RR talk, poor signal. (BV)

1143 WEST GERMANY AFN Stuttgart etc. 12/6 1234 PB via CBS then AFN talk filler, fair signal. (Vernon)

1170 ALASKA KJNP North Pole 12/4 0909 male with RR talk, noted 1652 w/SSB s/on. Xint here. (Vernon)

1180 JAPAN JKP Kitami NHK1 12/11 1253 male enncr then Oriental type mx, poor signal. (Vernon)

1197 WEST GERMANY VOA Munich 12/4 1741 male with E. European type talk, Hungarian listed. (Vernon)

1215 ALBANIA Luannje 12/13 0619 female w/talk via phone, talk also seemed to have a blowing sensation (not really, you are just getting a little lonely up there and your ears play tricks...CH) in my ears, signal so strong, Albanian lingo listed. (Vernon)

1215 USSR Estonia Tartu/Orissaare 12/10 0227 noted w/IS and 0230 USSR anthem // 1035, poor but clear signal. (Vernon)

1224t BULGARIA Vidin 12/4 1609 male w/AA type singing, this listed w/ Albanian but WATH mentions extra Turkish pgms on Sunday so perhaps this. Good to poor w/no announcements to 1639. (Vernon)

1251t LIBYA Tripoli 12/10 0126 AA instrumental mx, guitars, drums etc. (Vernon)

1267 CZECHOSLOVAKIA Liblice etc. 12/12 0542 malew/EE talk about times and freqs, could not pick out much, 0545 6 pips, 43 IS, 33 ID and into SS pgm. Tried again 12/13 but nothing and nothing listed. (Vernon) Good that nothing heard I would say....CH

1314 NORWAY Kvitsoy 12/7 0143 male ended talk, another time he finished at 0146 so is off between 0143 to 0146 usually. (Vernon) Why were you timing him, has he been late getting home from work recently?

1323 EAST GERMANY R. Moscow, Leipzig 12/1 0350 male mentioning EE service only on 201 meters (1474) at 0400. (Vernon) 12/10 0138 male w/EE service, good signal. (Vernon)

1332 ITALY Home RAI 12/1 0517 male and female enncrs then instrumental mx, fair briefly. (Vernon)

1332 USSR Estonia Voru etc. 12/10 0227 IS noted // 1035, 1215 poor wavy signal, could not pick out the USSR anthem though later. (Vernon)

1350 USSR Latvia Cesvaine/Kuldiga 12/10 0303 USSR anthem, 0304 female enncr and news sounder, fair signal // 801. (Vernon)

1359 EAST GERMANY Berlin SMDR 12/13 03 rr mx 0111 // 783. Good signal w/het. (Vernon)

1366t USSR Kaliningrad 12/12 1655 male with mumbled talk, could find no //, German listed. (Vernon) (what you need is a second radio, then you can find a parallel to anything!!!) 12/5 0014 male with unid talk, poor signal, s/off is 0100 as mentioned in WATH. (BV)

1395 ALBANIA Durres 12/13 0555 male with talk, Polish listed, 0556 "International" mx, OC then trumpet IS, good sig. (Vernon)

1413 OMAN BBC Masirah Island 12/4 1700 pips, BBC WS news w/Peter Lewis, good signal. (Vernon) 12/11 1701 noted w/EE WS news. (BV)

1431 EAST GERMANY BR Bernburg etc. 12/10 0354 GG ballad noted w/xint signal. (Vernon)

1440 LUXEMBOURG RTL Marnach 12/9 0220 male mentioned R. Luxembourg 50th birthday, and listeners asked to send their T-10 favorites of all time for Lux's T-100 to London West One, 12/10 0356 IS of music box type (not the same as Monaco-hi. (Vernon)

1440 JAPAN JOWF Sapporo STV 12/11 rr mx, 1330 female enncr, orchestral mx "Gone with the Wind" briefly and female and male enncrs. Good signal. (Vernon)

1440 LUXEMBOURG Marnach 12/5 0200 mentioned SW report from Sydney, Australia and promise of new MPC QSL for SW reports sent to Earth Link 3d, Hertford Street, London W1. (Vernon)

1440 SAUDI ARABIA Hse-as-Zawr 12/4 1556 female with talk, may have been a play. Fair sig, AA wailing and good signal 1613. (Vernon)

1450 ENGLAND BBC various 12/10 0311 female enncr, instrumental mx // 002, Radio Two, always fades now before local programs 0630+. (Vernon)

1476 AUSTRIA ORF Wien-Bismberg 0338 rr mx, xint one of the best TA's. (Vernon)

1476 USSR Vladivostok 11/4 1759 PS IS, 1800 male and female with CC service. This, UAE-1481, Poland-1503 in at same time on same antenna. (Vernon)

1481 UNITED ARAB EMIRATES Dubai 12/11 1724 AA instrumental mx, fair to good signal. (Vernon) 12/4 1613 male w/AA wailing and 1601 instrumental AA type mx. (Vernon)

1494 USSR Leningrad 12/11 male enncr in East Euro lang w/strange IS at 1615, 1616 and 1623 mention of Agent Orange at 1620 so propaganda likely. 12/13 noted as late as 0518 w/EE service, listed as off at 0500. (Vernon) 12/5 0058 mentioned dropping EE service on 216 meters, 321 meters and continues on 201 meters, 227 meters (1323 kHz) and 262 meters (1443 kHz) 0100. Good signal. (Vernon)

1503 POLAND Stargard Szczecinski 12/4 noted 17467757 rr (EE) mx w/ female enncr in EE, 1757 male mentioned mx from Santona and letters and reports to Box 46, Warsaw; 1759 IS listed w/Swedish service in WATH, was all EE. Good signal, was convinced that it was Stoke. (Vernon)

All times are in EASTERN LOCAL TIME, except checks with underlined times. In those cases, the check is run on standard time throughout the year.

FIRST MONDAY				FOURTH MONDAY			
0020-0030	WCRN	1240	NO T	0001-0015	WVWB	1590	PA T
0025-0035	WCRK	1150	TN T	0015-0030	WVWD	1400	NJ T
0100-0115	WCRV	1580	MS M	0030-0045	WVWE	1520	PA TM
0115-0125	WKLE	1400	TX T	0045-0055	WVWS	1050	VA T
0200-0215	WKPG	1260	IA M	0045-0100	WVWT	1590	VA M
0215-0230	WKUZ	1490	AZ T	0050-0100	WVWV	1530	PA T
0225-0235	WKAA	1560	SD T	0100-0115	WKJBC	910	ND T
0245-0300	WKOL	790	MT T	0105-0120	WKROX	1260	MT T
0300-0315	WKQIX	1230	OR TCa	0145-0200	WVWCB	1490	PA T
	WKML	1240	ID TCa	0200-0210	KOAL	1230	UT T
	WKVAC	1490	VA TCa	0215-0230	WKML	910	VA T
	WKTX	1450	MT Ta	0300-0305	WVWFG	1290	PA M
				0300-0335	WVWIL	560	PA M
				0415-0430	WVWIK	980	PA T
				0515-0520	WVWPA	1340	PA T
				0525-0540	WVWLV	970	VA T
				0530-0540	WVWNT	690	VA T
				0545-0600	WVWNS	1150	PA T

a - 1st MN per monitor but is occasionally reported on 2nd MN

SECOND MONDAY			
0030-0040	WVWFO	1320	NY Tb
0110-0120	WVWQK	1530	KS T
0130-0145	WVWSD	930	SD T
0205-0215	WVWOW	1450	WY T
0210-0220	WVWDX	1340	NM T
0215-0230	WVWSP	1260	NM T
0220-0230	WVWTO	1340	SD T
0230-0245	WVWGL	1240	NM T
0240-0250	WVWBY	1240	MT T
0245-0300	WVWBS	980	VA T
0300-0315	WVWQK	1230	OR TCa
	WVWML	1240	ID TCa
	WVWVAC	1490	VA TCa
	WVWDX	1450	MT Ta
0310-0325	WVWDT	1340	TH T
0405-0415	WVWYH	1490	NE T
0435-0450	WVWSV	1570	VA T
0500-0510	WVWBO	1090	MT T
0515-0530	WVWNS	1340	KY T
	WVWKK	1560	IN T
0640-0650	WVWLB	1470	KS T
	WVWPO	1260	CO T
0645-0700	WVWRZ	1460	TX T
0720-0723	WVWRG	1400	MT T
0735-0745	WVWCR	1340	WY T
0745-0755	WVWCR	1450	CO T
0750-0800	WVWPAG	1400	CO T

*** - "15 minutes before local a/on or 0630 if earlier"
 a - 1st MN per monitor but is occasionally reported on 2nd MN
 b - MN is same week as 15th
 % - MN after 2nd Sunday

THIRD MONDAY			
0001-0010	WVWON	1450	GA T
0030-0040	WVWFO	1320	NY Tb
0100-0115	WVWFO	1050	OK T
0110-0120	WVWVH	940	NE T
0200-0210	WVWPK	1340	NM T
0210-0220	WVWKN	1340	WY T
0220-0230	WVWLL	1340	NM T
0240-0250	WVWLT	1340	MT T
0245-0300	WVWPO	1340	MD T
0435-0450	WVWSV	1570	VA T
0515-0530	WVWNS	1340	KY T
	WVWCK	1560	IN T

*** - see 2nd MN for explanation
 b - MN in same week as 15th
 % - Monday after 1st Sunday
 Q3 - quarter (Mon, 3, 6, 9, and 12)

FIRST TUESDAY			
0000-0015	WVWLT	1420	GA T
0115-0120	WVWKK	1190	SD T
0445-0500	WVWSP	1240	KY T
0500-0515	WVWHL	1410	KY T
0515-0530	WVWCB	1340	KY T
0530-0540	WVWIK	1270	TX T
0530-0545	WVWLB	1290	KY T
	WVWZJ	1440	KY T
0545-0600	WVWGN	1340	KY T
	WVWDX	1030	TN T
	WVWVA	1350	VA T
0615-0625	WVWMC	1490	TX T
0640-0650	WVWDS	1410	LA T
0645-0655	WVWRM	1460	TX T
0715-0725	WVWBS	1450	SD Ta
0725-0735	WVWRL	1400	CO T
0740-0750	WVWNS	1260	CO T
0750-0800	WVWLN	1400	CO T

x - 1st or 2nd Tuesday
 a - not before 5th of month

SECOND TUESDAY			
0005-0020	WVWSJ	1240	NJ T
0020-0035	WVWED	1380	WV T
0100-0110	WVWFLA	1310	KS T
0125-0135	WVWPK	1490	VA T
0130-0135	KSIB	1520	IA T
0135-0145	WVWNZ	1450	VA T
0200-0215	KTWN	1430	ND T
0215-0220	WVWDR	1240	ND T
0245-0600	WVWLP	1240	TX T
0715-0725	WVWBS	1450	SD T
0725-0735	WVWRL	1400	CO T
0740-0750	WVWNS	1260	CO T
0750-0800	WVWLN	1400	CO T

THIRD TUESDAY			
0000-0015	WVWIG	790	VA T
0005-0020	WVWSJ	1240	NJ T
0015-0030	WVWHT	1510	PA T
	WVWJUN	1220	PA T
0020-0035	WVWTD	1380	WV T
0030-0045	WVWHL	1590	NY T

- 1512 BELGIUM BRT3 Wolvortem 12/13 0557 short electronic mx, news sounder type reported 0600 b pipe male into rx, 0604 news with electronic tune in between items, 0606 rr (33) rx, 0609 males with talk via phone, wavy signal, WRTM lists a/cn at 0700. (Vernon)
- 1512 USSK unid 12/13 0611 topping Belgium w/male and female anchors, HK talk. (Vernon)
- 1566 SOUTH KOREA HLAZ Jaju 12/4 1743 female w/HK talk o/instrumental orchestral mx, noted 1802 w/orchestral mx, believe anthem, 1803 carrier cut. So on lonfer than listed in WRTM. This is with many TA's. (Vernon) 12/11 1741 female with religious type mx not EB. (Vernon)
- 1593 WBSR GERMANY WDH Lungenberg 1530 male with GG talk, still a good signal here. (Vernon)

And if your name is not Vernon or Mount you won't find your name in the credits for this week. Show on each and every one of you people. Bunch of lazy no-good DX'ers.....

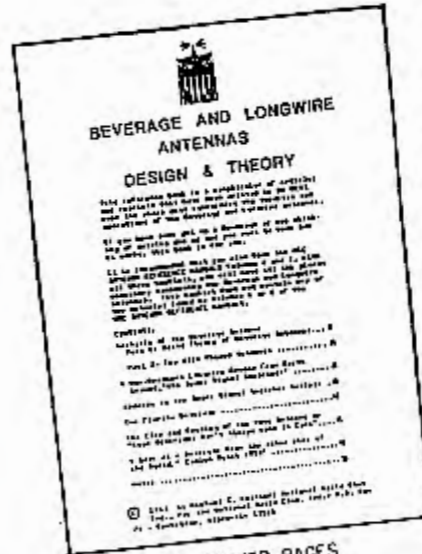
Paul Mount-Tesneck, NJ Sony STRVXII, SM2, TRV, Superkadio
 Brian Vernon-Kiss, Yukon Terr. PH07000, R7A, b Beverages

NEW!! JUST RELEASED !!

BEVERAGE AND LONGWIRE ANTENNAS - DESIGN AND THEORY

THIS MANUAL IS A COMPILATION OF NUMEROUS ARTICLES ON THE SUBJECT OF DESIGN AND THEORY OF THE BEVERAGE AND LONGWIRE ANTENNAS WHICH HAVE APPEARED THROUGH THE YEARS IN DX NEWS. NOW THEY ARE AVAILABLE ALL UNDER ONE COVER. IF ORDERED SEPARATELY AS REPRINTS, YOU WOULD SPEND THREE TIMES AS MUCH !!

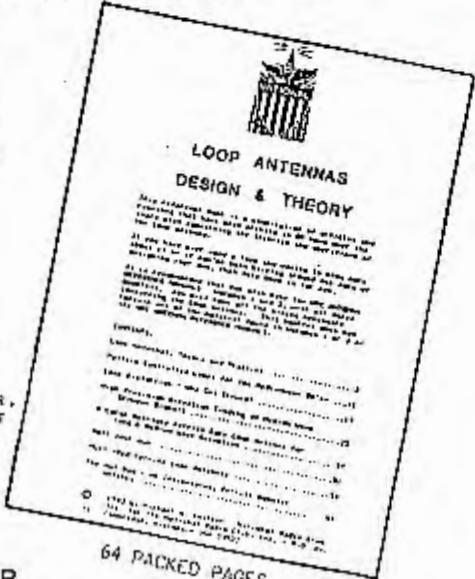
IF YOU'RE SERIOUS ABOUT DESIGNING BEVERAGES OR LONGWIRE ANTENNAS THEN THIS BOOK IS FOR YOU. DESIGNED TO ENHANCE THE ANTENNA REFERENCE- VOL. 1 AND VOL. 2 MANUALS. 5 1/2" x 8 1/2" BOOKLET FORMAT. \$2.50 IN THE U.S. AND CANADA. OTHER COUNTRIES, PLEASE INQUIRE FIRST BEFORE ORDERING.



52 PACKED PAGES

LOOP ANTENNA - DESIGN AND THEORY

THIS MANUAL IS A COMPILATION OF NUMEROUS ARTICLES ON THE SUBJECT OF DESIGN & THEORY OF THE LOOP ANTENNA. THESE ARTICLES ONCE APPEARED SEPARATELY THRU THE YEARS IN DX NEWS AND ARE STILL AVAILABLE AS REPRINTS, BUT NOW THEY HAVE ALL BEEN COLLECTED UNDER ONE COVER, AVAILABLE NOW TO 1/3 THE COST IF BOUGHT AS SEPARATE REPRINTS!! 5 1/2" x 8 1/2" BOOKLET FORMAT. \$2.50 IN THE U.S. AND CANADA. OTHER COUNTRIES, PLEASE INQUIRE FIRST.



64 PACKED PAGES

ORDER TODAY!!
 NRC PUBLICATIONS CENTER
 P.O. BOX 164
 MANNSVILLE, NY 13661

0045-0100	WVHL	1600	PA	T
0100-0115	KOLY	1300	SD	T
0125-0135	WPKX	1490	VA	T
0120-0140	KERL	1350	NE	T
0135-0140	WVWZ	1450	VA	T
0300-0315	WVBNX	1380	NY	T

* - Tuesday after 2nd Monday
- Tuesday after 3rd Monday

FOURTH TUESDAY

0000-0010	WVBN	1600	DE	T
0000-0015	WVFD	810	VA	T
	WVIO	790	VA	T
0015-0030	WVAY	1490	VA	T
	WVAT	1510	PA	T
	WVJN	1220	PA	T
0045-0055	WVVA	1490	VA	T
0045-0100	WVHL	1600	PA	T
0300-0315	WVBNX	1380	NY	T

- Tuesday after 3rd Monday
* - Tuesday after 4th Monday

FIRST WEDNESDAY

0100-0110	WVBO	1540	TX	T
0115-0125	WVNY	1450	TX	T
0120-0130	WVOP	1070	TX	T
0200-0215	WVNO	1230	AZ	T
0545-0500	WVSL	1600	KY	T
0547-0555	WVSK	1340	KY	T
0555-0600	WVTL	1580	KY	T

SECOND WEDNESDAY

0105-0120	WVSN	1340	TX	T
0110-0120	WVSN	1280	TX	T
0145-0200	WVWB	1400	FN	T
0600-0615	KTUI	1560	MO	T

THIRD WEDNESDAY

0200-0215	WVSC	1510	MO	T
0230-0245	WVKT	1340	NM	T

FOURTH WEDNESDAY

0100-0110	WVMI	1540	IL	T
0200-0215	WVSM	1270	MS	T

FIRST THURSDAY

0025-0040	WVCT	1390	TN	T
0100-0110	WVCP	1280	KY	T
0200-0210	WVAF	810	NM	T
0200-0215	WVIX	1490	OK	T
0210-0220	WVOT	610	MT	T
	WVKB	960	NE	T
0220-0230	WVBN	1230	MT	T
0230-0245	WVDS	980	SD	T
0545-0600	WVVA	1460	KY	T
	WVBL	1490	TX	T
	WVRL	1140	KY	T
	WVLT	1140	TN	T
	WVIR	1550	KY	T
	WVJT	1590	KY	T
0610-0620	WVGH	1410	TX	T
0645-0655	WVRO	1510	TX	T

y - 1st or 2nd Thursday but not before 5th of month
*** - 15 minutes before s/on

SECOND THURSDAY

0100-0115	WVGO	1090	ND	T
0100-0120	WVND	1570	KS	T
0110-0120	WVAM	1580	NE	T
0145-0200	WVAV	1520	ND	T
0200-0210	WVKA	980	NM	T
	WVAF	810	NM	T
0210-0220	WVJM	610	MT	T
	WVNB	960	NE	T
0220-0230	WVBN	1230	MT	T
0230-0240	WVDS	980	SD	T
0300-0315	WVHB	1240	GA	T
0630-0640	WVBL	1450	TX	T
0645-0655	WVPO	1260	TX	T

y - 1st or 2nd Thursday but not before 5th of month
* - 2nd or 3rd Thursday

THIRD THURSDAY

0100-0120	WVPU	940	MS	T
	WVND	1570	KS	T
0110-0120	WVAM	1580	NE	T
0200-0210	WVKA	980	NM	T
0215-0230	WVHI	1570	MS	T
0220-0230	WVHB	1240	NY	T
0230-0240	WVNM	1150	SD	T

x - 2nd or 3rd Thursday
Q1 - Quarterly (Mon. 1,4,7, and 10)
- 3rd Thurs. or 2nd Saturday AND months 1 and 7 only.

FOURTH THURSDAY

0030-0040	WVVA	610	VA	T
-----------	------	-----	----	---

- Thursday after 4th Wed.

FIRST FRIDAY

0015-0025	WVFX	1240	FL	T
0100-0115	WVIR	960	MO	T
0445-0500	WVOR	1330	KY	T
	WVSL	1520	IN	T
0530-0545	WVSL	1520	IN	T
0545-0555	WVAY	1490	KY	T
	WVHC	1520	KY	T
0630-0640	WVND	1470	TX	T
0650-0700	WVFM	1150	TX	T

s - summer w - winter

SECOND FRIDAY

0000-0015	WVHB	1360	VA	T
0015-0030	WVTA	1240	PA	T
	WVHP	1480	PA	T
0045-0050	WVRA	1340	PA	T
0115-0125	WVCS	1360	IA	T

* - Friday after 2nd Thursday

THIRD FRIDAY

0000-0015	WVHB	1360	VA	T
0015-0030	WVTA	1240	PA	T
	WVHP	1480	PA	T
	WVIV	1430	VA	T
0045-0050	WVRA	1340	PA	T
0059-0100	WVXN	1400	VA	T
0110-0115	WVPR	1450	VA	T
0130-0145	WVKS	1270	AL	T

0145-0150	WVFC	1400	PA	T
0200-0205	WVGA	1330	NM	T
0200-0220	WVTR	1490	NM	T

- Friday after 3rd Thursday
* - Friday after 2nd Thursday

FOURTH FRIDAY

0015-0030	WVIV	1430	VA	T
0059-0100	WVXN	1400	VA	T
0100-0115	WVTR	1450	VA	T
	WVLA	1350	OK	T
0145-0150	WVFC	1400	PA	T
0145-0200	WVBN	1450	OK	T
0645-0655	WVNS	1790	IL	T
0645-0700	WVJS	1170	MO	T

- Friday after 3rd Thursday

FIRST SATURDAY

0110-0120	WVRR	1400	NE	T
0200-0210	WVBN	1450	MT	T
0200-0215	WVUL	1380	AZ	T
0210-0220	WVLA	1450	NM	T
0210-0225	WVCA	1490	AZ	T
0530-0545	WVDD	1420	VA	T
0545-0600	WVVK	1270	KY	T
	WVDO	1310	KY	T
0550-0600	WVKS	580	NC	T
	WVMS	1050	MO	T

x - 1st or 2nd Saturday but not before 5th of month.

SECOND SATURDAY

0110-0120	WVRR	1400	NE	T
0200-0210	WVBN	1450	MT	T
0210-0220	WVLA	1450	NM	T
0230-0240	WVNM	1150	SD	T

x - 1st or 2nd Saturday
- 3rd Thurs. or 2nd Saturday AND months 1 and 7 only

ACKNOWLEDGEMENTS:

A number of monitoring companies cooperated again this year in supplying a list of their checks, including Northwest, Southwest, and Anderson. Unfortunately, we could not get a fully updated list from Hutton this year even though we delayed the list a week or two. Special thanks also go to Dave Schmidt, Robert Kramer, Robert Wein, Wayne Heinen, Karl Forth, and Rob Harrington who also supplied information making this list possible. Other information was gathered from both DXN and DXM.

To make the next list better and more accurate, send all new information (including reception of checks contained in this list) to DXN and/or DXM or directly to -

Joseph Pels
150 Robert Place
So. Plainfield, N.J. 07080

REMINDER: For those of you that write overseas, we remind you that all clubs within ANARC, of which we are part, have agreed to protest to those countries that continue to practice intentional jamming of international shortwave broadcasts. We ask that you send a letter or postcard to stations in those countries protesting their practice of intentional jamming.

THIRD AND FOURTH SATURDAYS
(none)

FIRST SUNDAY

0200-0215	WVIV	1470	WY	T
0210-0220	WVRR	1230	CO	T
0220-0230	WVRS	1230	NM	T

x - 1st or 2nd Sunday but not before 5th of month.

SECOND SUNDAY

0200-0215	WVIV	1470	WY	T
0210-0220	WVRR	1230	CO	T
0220-0230	WVRS	1230	NM	T

x - 1st or 2nd Sunday
0530-0545 WVLC 1250 KY T
0545-0600 WVMO 1360 WV T

THIRD AND FOURTH SUNDAYS
(none)

KEY TO SYMBOLS:
@ - Regular check per monitoring service
* - Regular check per constant reception and/or station
T - station checks with tone
t - Station checks with dial tone
M - Station checks with Music
C - Station IDs in Morse Code

TOP END

CRAIG HEALY
66 COVE STREET
PAWTUCKET, RI 02861

1600-1800 KHZ RANGE TIMES ARE GMT DEADLINE: LAST. SAT. OF MONTH

First, Eric Bueneman has some BCB harmonics:

Of **WCVB** 770: 1540, fair.
Of **KFUD** 850: 1700 ex., 2550 ex., 3400 gd., 4250 fr., 5100 pr.
Of **KXEN** 1010: 2020 good/ex.
Of **KMOX** 1120: 2240 ex., 3360 ex., 4480 gd., 5600 gd w/ dist. audio, 6720 fr. w/ dist. audio, 7840 fr., 8960 fr., 10080 pr. w/ fr. audio, 11200 pr. w/ fr. audio and a few higher non-harmonic freqs.

Of **KSIV** 1320: 2640 ex., 3960 gd.
Of **KWK** 1380: 2760 good/fair

I can't help wondering if these are being generated locally to Eric. It seems like a lot of misplaced RF, particularly for a CBS O&O like KMOX.

KPE-643 (WATD rebroadcast) has apparently had some tower construction hiccups. I don't have a new target date, but knowing Ed Perry's track record, it shouldn't be too much longer. More as it happens.

LOGGINGS:

1611 ??? 0631-0646 12/31 BC station-bits of mx, voices. Too weak to ID lang. 1610 and 1613 hets, 1600 splatter, WDR-1593 gd at this time.
1613 QUATEMALA Robinal 0446 11/21 RAB fair. (Neal)
1621 ??? 0459 11/21 IND fair. (Neal)
1629 ??? 0450 11/21 KAB1226 fair. (Neal)
1635 ??? 2210 12/16 K235 fair.
1635 ??? 2211,2216 12/16 Y375 good.
1635 ??? 2212,2220 12/16 H313 fair, unstable frequency.
1635 ??? 2218 12/16 G59 and dash, poor. Unusual, only 2 digits.
1635 ??? 2214,2220 12/16 W445 fair.
1635 ??? 0441,0446 12/5 G442 and dash, good. Also 2211,2216 12/16
1635 ??? 0444,0448 12/5 U282 and dash, strong.
1635 ??? 0447,0504 12/5 E59 and dash, good. Another unusual one.
1635 ??? 0455,0507 12/5 W382 and dash, strong.
1635 ??? 0526,0530 12/5 R235 fair.
1637 ??? 2222,2226 5340 and dash. Fair. Oh yes, 12/5.
1637 ??? 2223,2227 12/5 J445 and dash. Fair.
1637 ??? 2226,2230 12/5 D348 fair.
1637 ??? 2227 12/5 KA81184 fair. Also 0500,0504 12/19.
1637 ??? 0503 12/19 KA81192 fair w/ faster than normal code speed.
1644 ??? 0704-0710 12/23 RTTY noted fair. Seemed like two, one over the other. Also a faster data rate than 1768.
1644 ??? 0540-0615 12/30 Station sending "LCB TLX" in morse code. A "brap braasp brap" electronic sound effect followed each code sequence. This ended and RTTY started at 0555. Went back to "LCB" bit at 0603. Fair to very good w/ static from t-storm, also 0625 12/31.
1650.7 0426 11/21 OSVW followed by 6 dots. Fair. (Neal)
1665 ??? 0440 11/21 KA83468 poor. (Neal)
1678 ??? 0549-0551 12/29 USB signal in 55 noted again poor to fair. Was never really understandable. Several different stations here like a network. Gone by 0551. Lots of T-storm noise as well.
1680 ??? 0536-0546 12/20 SAL very good at times.
1680 ??? 0541-0546 12/20 XH fair under SAL.
1685 COLUMBIA Mercedes 0506-0507 12/12 MER very good.
1685 same 0444 11/21 MER fair. (Neal)
1698 ??? 2305 onwards 11/24 Woman and man alternating in 55, latin mx. Several nents of Cuba. Fading started 2330 but still there 2357. On hour hrd three chimes, rising in pitch. Fairly heavy CW interference. (Stuttsehm)

1700 ??? 0609-0616 12/31 USB 55 station(s) fair-good. Exactly 1700.
1755 ??? 0614,0623 12/17 FU13 and dash. Poor-fair.
1768 ??? 0543-0546 12/22 RTTY station, strong. Anybody with a RTTY demod want to try this one?? Quite regular here.

Out of order:

1623 ??? 0502,0505,0508 12/14 A607 and dash. poor-fair.
1649.5 ??? 0435 11/21 JETU dash IEUT dash fair. (Neal) Sounds like negative keying, but I don't know of what.....ed.

Credits: San Neal Cleveland TX Kenwood TS8305
Halt Stuttsehm Montauk NY Radio Antenna Salt Water
Those with no name are mine.....same old equipment.



KOGT 1600 AM

Call us at 1-800-255-0000
3244 MEERS DRIVE ORANGE, TEXAS 77630

FORMATS

OF THE MONTH CLUB

TONY FITZHERBERT
356 JACKMAN AVENUE
FAIRFIELD, CT 06430

Here is the maiden version of the long - promised Format column, which has the impact of a CNW computer train in Nenana, Alaska. Hopefully, it will be of value as you twist those dials, and wonder why classical music is coming in on 1170 KHz, at 9:00 PM, EST...or if you hear "Princeton's Official Dance Music Station", on 1350 KHz, at 3:00 AM....let us know.

Here we go:

550 WSWA VA Harrisonburg - MGR, w/AP nx. (BB)
560 WFRB ND Frostburg - CWN (BB)
570 WGMS ND Bethesda - Classical w/RKO nx. (BB)
610 WVAI VA Winchester - Dropped MYL, now ROK, ID's as "The Music Station" (BB)
620 WJDX MS Jackson - Ad Com nx, A(1) nx. (GL)
690 WAPE FL Jacksonville - Ro1, ID's as "Joy 690" (TF)
730 WPKX VA Alexandria - CWN... (The more things change, the more they stay the same.....) (BB, DS, AKF)
740 WKIS FL Orlando - ID's as "News - Talk 74", Mutual news on the half hour CBS on the hour, CBS features. (WR)
740 KCMC TX Texarkana - now hooked up with Music Country Network (SF)
740 WRMR VA Martinsburg - Ad Com and Christian programming (BB)
930 WFMD ND Frederickburg - Christian, CWN, CBS nx on the hour (BB)
930 WSLI MS Jackson - Ad Com nx, Talknet from 7:00 PM (GL)
970 WRKN MS Brandon - CWN, WPI nx (GL)
1000 WTOO PA Carlisle - oldies (BB)
1060 WTPP MA Natick - ID's as "Talk of the Suburbs", and "Touch Talk 1060" (Gee, May I1177), lots of telephone talk about sex, human relationships, etc, many commercials (TF)
1170 WRIT CT Vernon - Formats oldies (TF)
1230 WNEB MA Worcester - "Your kind of music".. MYL stuff, CBS on the hour (TF)
1300 WXXI MS Jackson - Black, Soul Programming. (GL)
1310 WFPD PA Bedford - Christian programming, dropped ROK (BB)
1370 WMYD RI Wickford - now all information, with CNN (All news for Wickford Junction !!!) (TF)
1400 WJQS MS Jackson - CWN, Mutual nx, Larry King (GL)
1400 WRHQ PA Loretto - T40, sked MSP, simulcasts w/ WBDX, 94.3, ID's as "Q94" per v/1. (DS)
1410 WRAG MD Hagerstown - Nx, Talk, CNN, ABC (BB)
1450 WNA8 CT Bridgeport - Ad Com during the day, Black,Soul during the evening, Mutual News, ID's as "Sound of the City" (TF)
1550 WNTN MA Newton - AM News Black, Urban Contemporary, ethnic programming during middays and the weekend, that's three ethnic sines on the AM dial in Metro Boston.
1560 KJZZ TX West Lake Hills - ROK, has dropped MYL. (JPH)
1570 WBVD MA Beverly - CWN, ID's as "The North Shore's Country Music Station"(TF)
1590 WCBG PA Chambersburg - Christian, CWN, NBC nx (BB)

Well, not too bad for an initial showing!! Here are the folks who have made it possible.

DS- Dave Schmidt, New Castle, DE
SP- Steve Francis, Alena, TN
WR- Walt Rogers, Miami Beach, FL
TF- Tony Fitzherbert, Fairfield, CT and driving up I-90 and down I-95
GL- Greg Leadbetter, Jackson, MS
BB- Bob Binou, Hagerstown, MD
JH- John Herman, Vinita, OK

I note that some stations are dropping MYL.. I wonder if that is the end of a fad? All for now... this word processor does everything but pour drinks... send in your contributions. Thanks to Dave Schmidt for forwarding up some format changes that went to him.

BEST WISHES FOR A VERY HAPPY NEW YEAR !!



... the station that plays your kind of music

Wini

P.O. BOX 276 • MURPHYSBORO, ILL 62566



P.O. BOX 1404
DES MOINES, IOWA 50305

WLNT - AM 1140
TELLICO BROADCASTING CO., INC.
P. O. Box 465
London, Tennessee 37774

KZIA FM 102
1580AM

10,000 Watts
P.O. Box 25166
Albuquerque,
New Mexico
87125

KTAC 85

2000 Tacoma Mall Office Building
Tacoma, Washington 98411

with Peter Kemp

THE PHILADELPHIA ORCHESTRA

One cold night in April 1934, Samuel Kaufman, columnist for the RADIO NEWS, traveled 200 miles to witness the first fifteen-minute broadcast by the Philadelphia Orchestra conducted by Leopold Stokowski. The symphonic group has long been known to radio listeners, but never before did it try so radical an idea as to present a daily fifteen minute broadcast. This limited time, of course, necessitates the frequent presentation of excerpts rather than complete symphonic works, but Stokowski believes that the small but continuous doses of good music may serve to further public interest in the more serious type of composition. The series is presented every day, except Sunday, under the sponsorship of Liggett & Myers Tobacco Company, from the studios of WCAU in Philadelphia. Stokowski takes full technical charge of the studios during his broadcast. He has his own ideas of microphone placement and everything he says goes. The control men are musicians of his own selection. No visitors are permitted to his broadcasts and all usual studio formalities are discarded. The conductor doffs his coat before the broadcast, turns in his shirt neckband and climbs up a tall stool on the conductor's rostrum. Using no baton, but merely waving his hands, Stokowski is perched atop the stool, which he himself designed, throughout the program. He terms radio a "great adventure" and likes the studio better than a concert hall for the reason that it eliminates the coughing, sneezing and applauding of visible audiences.

I wonder how often the Lone Ranger's theme song was requested?

Dallas Lankford
(c) 1983

The more I learn about ferrite loops the more clearly it becomes apparent that ferrite rod loop antenna theory is inconsistent and does not adequately describe physical reality. For example, HQ some months ago passed along an article "Loop antenna design," by A. Przedpelski which appeared in the Nov./Dec. 1982 issue of *E. F. Design*, pp. 12-20, with errata pp. 7 Jan./Feb. 1983 and reader comments and reply pp. 12-14 Mar./Apr. 1983. The article gives the maximum voltage induced in the loop as

$$E = 13.55 \times 10^{-12} M_e \sqrt{NA} f A$$

where M_e = effective rod permeability

For a ferrite rod of length L and diameter D the effective rod permeability is given as

$$M_e = 2.934(L/D)^{1.394}$$

and for a coil of length X the averaging factor is given as

$$Y_A = 1 - 0.17(X/L)$$

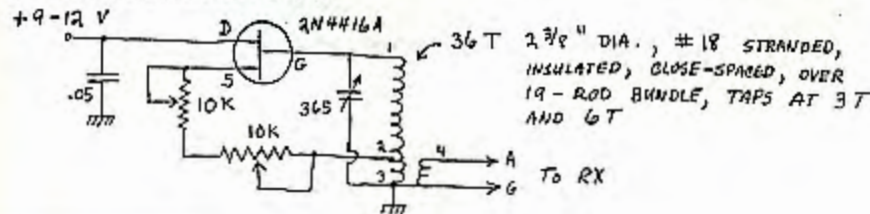
v = field strength (volts/meter)
N = number of turns
A = area of loop (square inches)
f = frequency (Hertz)
Y_A = averaging factor

Consider the problem of maximizing the induced voltage where only the coil spacing may be varied. In this case the only variable is the averaging factor which is maximized when the coil length X is minimized. This does not agree with the experimental evidence of Grinnett (1954) and Worcester. Also, the effective rod permeability formula above is independent of permeability, which implies there is no increase in induced voltage when higher permeability rods are used. This is contrary to other theories, cf. van Suchtelen (1952a), and does not agree with the experimental findings of Worcester who uses high permeability rods in his SM-1 and SM-2.

The induced voltage formula was applied to my 19-rod loop assuming a 4/1 length to diameter ratio, and it was calculated that E = 0.038 V. The measured loop voltage at the Tech EE lab for KRUS 1490 was 60 millivolts, from which we deduce a field strength of 1.58 volts per meter. Impossible. Interestingly, assuming a 20/1 ratio (which is about the value for a single 8" by 3/8" dia. rod), it follows that E = 0.38 V which is about what is expected. In this case we deduce a field strength of 0.16 volts per meter which is reasonable at about a mile from the KRUS antenna.

Because of these kinds of departures of theory from physical reality, see also Lankford (1983), state of the art ferrite rod loop design is not an exact science. However, some general design principles can be given for designs at medium frequencies based on experience: (1) single rod loop antennas of length 12" or less will not be sensitive enough to hear man-made noise in a reasonably quiet location, (2) multi-rod loops are generally more sensitive than single rod loops... it is not known how many rods are required for a 1W ferrite rod loop to be man-made noise limited in quiet locations, but we suspect that most multi-rod loops currently in use are deficient in this regard, (3) a 19-rod bundle of 8" by 3/8" dia. rods is man-made noise limited throughout most of the BCB (except near 1200 khz) in a reasonably quiet location, see Lankford (1983) for a description of this loop, (4) bundling may not be the most economical configuration of ferrite rods... in keeping with the principle that a high L/D ratio is desirable, longer rods can be made by overlapping... Hagan formed a 42" rod from 7 rods 12" by 0.6" dia. whose weak signal performance he rated as not quite as good as a 4 foot air core loop, (5) the bottom line on multi-rod ferrite loop sensitivity may be more a matter of the amount of ferrite than the configuration... with our 19-rod loop increasing the L/D ratio by overlapping also increases the inductance of the coil, so turns must be removed from the coil to keep the tuning range constant, and the net increase in sensitivity is hardly worth the effort, (6) significant improvement in induced voltage and sensitivity requires another "layer" of ferrite rods, which would bring the total to 37 rods... but such a bundle is too bulky and too heavy for a simple homebrew loop.

One of the things I have noticed about good loops is that they tend to perform better at the low end. Loops generally have a narrower bandwidth at the low end because Q generally remains constant or decreases as frequency increases. The ideal Q for DXing purposes will be taken as equivalent to a 2 khz bandwidth, so that $Q = f/2$ where f is in khz. Thus ideal Q varies from 270 at 540 khz to 800 at 1600 khz. To achieve ideal Q the following circuit was used.



One of the 10 K variables is mounted on a PC board which contains the FET and fixed capacitor. It is used to set the range of the other 10 K variable which is the Q control. Sturdy construction practices were followed. The main tuning capacitor is driven by a Jackson Brothers dual speed (6/1 and 36/1) planetary vernier drive. Stable, slow tuning is essential in order to fine tune when high Q is used.

The circuit is a variation of a Q-multiplier circuit in Addendum '77/'78 for the Low and Medium Frequency Radio Scrap Book, but its use is somewhat different. The Q-multiplier is attached directly to the loop coil and controls its Q. Adjustment and use is routine. The range of the Q control is set so that oscillation can be obtained throughout the BC3. Throughout most of the range of the Q control, the circuit should not oscillate. At any particular frequency as the oscillation point is approached, apparent gain increases and the bandwidth audibly narrows. In that regard its operation is just like any other Q-multiplier. The circuit should scale up or down if the approximate tap ratios are maintained. For example, with a 100 turn coil, the taps should be at about 10 and 20 turns or perhaps somewhat less.

In tests with an HQ180A and R390A there was some interaction with the antenna trimmer of the BK. For the R390A at least one stage of amplification is required for adequate output level. Low end performance is not much improved, but above 630 kHz or so it really begins to take off. For example, R. Helme 834 can be boosted about 35 db before bandwidth narrowing becomes a problem, while 830 is down about 35 db and 840 is down about 45 db. With 5 kHz splits, adjacent channel domestics are down about 40 db. With Q-multiplication, the antenna (feeding the '180) is man-made noise limited throughout the BC3, even on the quietest days.

One might think that such dramatic improvements in loop performance would result in significantly improved hearability, but listening comparison tests against a 100' long wire (LW) demonstrated that improvements were not large. On some frequencies at some times the loop was superior, while on other frequencies or at other times the LW was superior. This evaluation does not take into account the loop's nulling ability which can often be used to make the loop a clear winner.

The circuit should work well at low frequencies because the original circuit operated in the 160 - 190 kHz band where 30 db bandwidths of ± 500 Hertz are reported. The 19-rod loop described above tunes about 490 - 2130 kHz. By changing the coil to 8 turns with taps at 1 and 2 turns the range is about 2.2 - 9 mhz. In this case the Q adjustment is more difficult because of rapidly fading signals. Also, little nulling ability was noted above 5 mhz. Sensitivity is excellent, about equal to a 100' LW. A 6 turn coil with taps at 1 and 2 turns has a tuning range about 3.1 - 12.3 mhz. Though sensitivity is not quite as good as the 8 turn coil in the lower frequency range, it is excellent in the 31 and 25 meter bands. Q adjustment is irritatingly tricky, and no nulls above 5 mhz. Fortunately, at 10 mhz a Q of 1000 is a fairly wide 10 kHz, but with rapidly fading SW signals it is difficult to find the peak, which in turn makes Q adjustment almost impossible.

REFERENCES

- Cornell, K. Addendum '77/'78 for the Low and Medium Frequency Radio Scrap Book, Communications Technology, Inc., 1977.
- Grimmett, C. Ferrite cored antennas. YRS Convention Record, Part 7, 1954, 3-7.
- Grimmett, C. Improving ferrite cored antennas. Tele-Tech and Electronic Industries 14, 2 (Feb. 1955), 84-85, 116, 118, 120.
- Hagan, J. A large aperture ferrite core loop antenna for long and medium wave reception. NRC reprint A39 (1977).
- Lankford, D. Multi-rod ferrite loop antennas. DX News 50, 18 (Feb. '14, 1983), 14-16.
- Przedpalski, A. Loop antenna design. E. Y. Design Nov./Dec. 1982, 12-20, Jan./Feb. 1983, pp ??, Mar./Apr. 1983, 12-14.
- van Suchtelen, H. Ferrocube aerial rods. Electronics Application Bulletin 13, 6 (1952), 88-100.
- van Suchtelen, H. Losses in ferrocube rods and tubes. Electronics Application Bulletin 13, 7 (1952), 109-114.
- Worcester, J. The shielded ferrite loop: principles and practice. NRC reprint A9.
- Worcester, J. How to build the space magnet shielded ferrite loop. NRC reprint A10.

REPRINTS / PUBLICATIONS ORDER FORM

Available from NATIONAL RADIO CLUB PUBLICATIONS CENTER, P.O. Box 164, HANNSVILLE, NY 13661. Payment in U.S. funds ONLY!

REPRINTS Rates are 18 cents per page for MEMBERS; 12 cents for NON-MEMBERS. Overseas surface mail rates are 12 cents per page. Number of pages are indicated by (). Circle selections please.

A1 (12)	R1 (18)	D1 (2)	F1 (6)	P1 (29)
A2 (1)	R2 (22)	D2 (4)	F2 (2)	P2 (2)
A3 (3)	R3 (6)	D3 (1)	F3 (2)	P3 (2)
A4 (3)	R4 (2)	D4 (3)	F4 (4)	P4 (3)
A5 (4)	R5 (4)	D5 (1)	F5 (5)	P5 (7)
A6 (2)	R6 (4)	D6 (3)	F6 (4)	P6 (5)
A7 (3)	R7 (6)	D7 (17)	F7 (5)	P7 (3)
A8 (3)	R8 (4)	D8 (4)	F8 (2)	P8 (3)
A9 (3)	R9 (6)	D9 (2)	F9 (2)	P9 (3)
A10 (2)	R10 (1)	D10 (4)	F10 (3)	P10 (18)
A11 (14)	R11 (3)	D11 (15)	F11 (6)	P11 (16)
A12 (4)	R12 (8)	D12 (6)	F12 (2)	P12 (3)
A13 (3)	R13 (2)	D14 (13)	F13 (18)	P13 (8)
A14 (1)	R14 (3)	D15 (2)	F14 (6)	P14 (18)
A15 (4)	R15 (32)	D16 (7)		P15 (9)
A16 (2)	R16 (25)			P16 (18)
A17 (7)	R17 (8)		M1 (1)	P17 (27)
A18 (10)	R18 (5)	L1 (6)	M2 (1)	P18 (3)
A19 (14)	R19 (2)	L2 (8)	M3 (9)	P19 (6)
A20 (4)	R20 (13)	L3 (4)	M4 (3)	P20 (6)
A21 (26)	R21 (2)	L4 (6)	M5 (2)	P21 (1)
A22 (11)	R22 (1)	L5 (6)	M6 (35)	P22 (2)
A23 (4)	R23 (2)	L6 (2)	M7 (1)	P23 (11)
A24 (3)	R24 (6)	L7 (7)	M8 (3)	P24 (33)
A25 (9)	R25 (1)	L8 (1)	M9 (3)	P25 (3)
A26 (8)	R26 (4)	L9 (6)	M10 (5)	P26 (9)
A27 (2)	R27 (7)	L10 (9)	M11 (4)	
	R28 (2)	L11 (3)	M12 (1)	RR1 (2)
	R29 (4)		M13 (3)	RR2 (3)
	R30 (4)		M14 (2)	RR3 (2)
	R31 (3)		M15 (1)	RR4 (2)
	R32 (4)			RR5 (2)
	R33 (3)			RR6 (4)
	R34 (4)			RR7 (4)
	R35 (2)			RR8 (3)
				RR9 (11)
				RR10 (4)
				RR11 (2)
				RR12 (7)
				RR13 (8)
				RR14 (1)
				PS1 (1)

CIRCLE SELECTIONS ABOVE

TOTAL PAGES _____ AT _____ c/page = \$ _____

Carry total over to next page, please

NAME _____

ADDRESS _____

ZIP CODE _____

THIS SPACE FOR PUBLICATIONS CENTER USE

MAIL FULL FORM TO:

N.R.C. PUBLICATIONS CENTER
POST OFFICE BOX 164
MANSVILLE, NY 13661

REPRINTS/PUBLICATIONS ORDER

REPRINTS - Total from other page = \$ _____

UDL - Updaters to the Domestic Log
\$1.00 to NRC Members Only // \$2.00 to Non-Members = _____

SSM - Sunrise/ Sunset Maps \$2.00 = _____

MAP - Map of the United States & Partial Canada. 50c for 5 maps = _____

EEGUIDE - Broadcasters Guide to DX \$1.00 for 20 = _____

SSGUIDE - Spanish version of the above item \$1.00 for 20 = _____

FFGUIDE - French version of the above item \$1.00 for 20 = _____

FORMS - Stationary/ Report Form Masters
50c per set of 3 (NRC Members only) = _____

STATIONARY - NRC LOGO 100 Sheets for \$4.00 (NRC MEMBERS ONLY) = _____

LOGSHEETS - 118 Sheets for \$4.00 = _____

LOGSHEETS - 25 Sheets for \$1.20 (same as above item) = _____

CALENDAR - Current Year, contains Sunrise/Sunset Maps as well as
other DX'er related Aids. \$4.00 = _____

CUP - 9 ounce Mug, White Glass w/ NRC Logo both sides
\$5.25 U.S. addresses \$5.75 Canadian Address
Others inquire at Pub. Center Address first = _____

DOMESTIC LDG - 6th Edition \$9.50 to NRC Members // \$9.50 to
non-members = _____

DOMESTIC LOG- SUPPLEMENT - State-City Index
\$3.50 to NRC Members // \$5.00 to non-members = _____

NIGHT ANTENNA PATTERN BOOK - \$7.50 to NRC Members
\$8.50 to Non-Members = _____

ANTENNA REFERENCE MANUAL - VOLUME 1 \$2.50 = _____

ANTENNA REFERENCE MANUAL - VOLUME 2 \$2.50 = _____

RECEIVER REFERENCE MANUAL - VOLUME 1 \$2.50 = _____

RECEIVER REFERENCE MANUAL - VOLUME 2 \$2.50 = _____

BEVERAGE & LONGWIRE ANTENNAS - DESIGN & THEORY \$2.50 = _____

LOOP ANTENNA - DESIGN AND THEORY \$2.50 = _____

GETTING STARTED IN MEDIUM WAVE DX'ING
FREE to NEW NRC Members // \$2.00 to Non-Members = _____

TOTAL OF PUBLICATIONS = \$ _____

PLEASE ALLOW
4 - 6
WEEKS FOR THE
PROCESSING AND DELIVERING
OF MATERIALS

TOTAL REPRINTS + PUBLICATIONS = \$ _____
(U.S. FUNDS ONLY)

THIS SPACE FOR PUBLICATION CENTER USE

REPRINTS / PUBLICATIONS ORDER FORM

Available from NATIONAL RADIO CLUB PUBLICATIONS CENTER, P.O.Box 164,
MANSVILLE, NY 13661. Payment in U.S. funds ONLY!

REPRINTS Rates are 10 cents per page for MEMBERS; 12 cents for NON-MEMBERS.
Overseas surface mail rates are 12 cents per page. Number of pages are
indicated by (). Circle selections please.

A1 (12)	R1 (18)	D1 (2)	F1 (6)	P1 (29)
A2 (1)	R2 (22)	D2 (4)	F2 (2)	P2 (2)
A3 (3)	R3 (6)	D3 (1)	F3 (2)	P3 (2)
A4 (3)	R4 (2)	D4 (3)	F4 (4)	P4 (3)
A5 (4)	R5 (4)	D5 (1)	F5 (5)	P5 (7)
A6 (9)	R6 (4)	D6 (3)	F6 (4)	P6 (5)
A7 (3)	R7 (6)	D7 (17)	F7 (5)	P7 (3)
A8 (3)	R8 (4)	D8 (4)	F8 (2)	P8 (3)
A9 (3)	R9 (6)	D9 (2)	F9 (2)	P9 (3)
A10 (2)	R10 (1)	D10 (4)	F10 (3)	P10 (18)
A11 (14)	R11 (3)	D11 (15)	F11 (6)	P11 (16)
A12 (4)	R12 (8)	D12 (6)	F12 (2)	P12 (3)
A13 (3)	R13 (2)	D14 (13)	F13 (18)	P13 (8)
A14 (1)	R14 (3)	D15 (2)	F14 (6)	P14 (10)
A15 (4)	R15 (32)	D16 (7)		P15 (9)
A16 (2)	R16 (25)			P16 (10)
A17 (7)	R17 (8)		M1 (1)	P17 (27)
A20 (18)	R18 (5)	L1 (6)	M2 (1)	P18 (3)
A24 (14)	R19 (2)	L2 (8)	M3 (9)	P19 (6)
A25 (4)	R20 (13)	L3 (4)	M5 (3)	P20 (6)
A28 (26)	R22 (2)	L4 (6)	M6 (2)	P21 (1)
A30 (11)	R23 (1)	L5 (6)	M7 (35)	P22 (2)
A31 (4)	R24 (2)	L6 (2)	M9 (1)	P23 (11)
A33 (4)	R25 (6)	L7 (7)	M10 (3)	P24 (33)
A36 (3)	R26 (1)	L8 (1)	M11 (3)	P25 (3)
M37 (9)	R27 (4)	L10 (6)	M12 (5)	P26 (3)
A40 (8)	R28 (7)	L11 (9)	M13 (4)	
A41 (2)	R29 (7)	L12 (3)	M14 (5)	
	R30 (2)		M17 (1)	RR1 (2)
	R31 (4)		M18 (3)	RR2 (3)
	R32 (4)		M19 (1)	RR3 (2)
	R33 (3)			RR4 (2)
	R34 (4)			RR5 (2)
	R35 (2)			RR6 (4)
				RR7 (4)
				RR8 (3)
				RR9 (11)
				RR10 (4)
				RR11 (2)
				RR16 (7)
				RR18 (8)
				RR20 (1)
				PS1 (1)

CIRCLE SELECTIONS ABOVE

TOTAL PAGES _____ AT _____ c/page = \$ _____

Carry total over to next page, please

NAME _____

ADDRESS _____

ZIP CODE _____

THIS SPACE FOR PUBLICATIONS CENTER USE

MAIL FULL FORM TO:

N.R.C. PUBLICATIONS CENTER
POST OFFICE BOX 164
MANSVILLE, NY 13661

REPRINTS/PUBLICATIONS ORDER

REPRINTS - Total from other page	= \$	_____
UDL - Updaters to the Domestic Log \$1.00 to NRC Members Only // \$2.00 to Non-Members	=	_____
SSM - Sunrise/ Sunset Maps \$2.00	=	_____
MAP - Map of the United States & Partial Canada. 50c for 5 maps	=	_____
EEGUIDE - Broadcasters Guide to DX \$1.00 for 20	=	_____
SSGUIDE - Spanish version of the above item \$1.00 for 20	=	_____
FFGUIDE - French version of the above item \$1.00 for 20	=	_____
FORMS - Stationary/ Report Form Masters 50c per set of 3 (NRC Members only)	=	_____
STATIONARY - NRC LOGD 100 Sheets for \$4.00 (NRC MEMBERS ONLY)	=	_____
LOGSHEETS - 110 Sheets for \$4.00	=	_____
LOGSHEETS - 25 Sheets for \$1.20 (same as above item)	=	_____
CALENDAR - Current Year, contains Sunrise/Sunset Maps as well as other DX'er related Aids. \$4.00	=	_____
CUP - 9 ounce Mug, White Glass w/ NRC Logo both sides \$5.25 U.S. addresses \$5.75 Canadian Address Others inquire at Pub. Center Address first	=	_____
DOMESTIC LOG - 6th Edition \$0.50 to NRC Members // \$9.50 to non-members	=	_____
DOMESTIC LOG- SUPPLEMENT - State-City Index \$2.50 to NRC Members // \$5.00 to non-members	=	_____
NIGHT ANTENNA PATTERN BOOK - \$7.50 to NRC Members \$0.50 to Non-Members	=	_____
ANTENNA REFERENCE MANUAL - VOLUME 1 \$2.50	=	_____
ANTENNA REFERENCE MANUAL - VOLUME 2 \$2.50	=	_____
RECEIVER REFERENCE MANUAL - VOLUME 1 \$2.50	=	_____
RECEIVER REFERENCE MANUAL - VOLUME 2 \$2.50	=	_____
BEVERAGE & LONGWIRE ANTENNAS - DESIGN & THEORY \$2.50	=	_____
LOOP ANTENNA - DESIGN AND THEORY \$2.50	=	_____
GETTING STARTED IN MEDIUM WAVE DX'ING FREE to NEW NRC Members // \$2.00 to Non-Members	=	_____
TOTAL OF PUBLICATIONS	= \$	_____
PLEASE ALLOW TOTAL REPRINTS + PUBLICATIONS 4 - 6 (U.S. FUNDS ONLY)	= \$	_____
WEEKS FOR THE PROCESSING AND DELIVERING OF MATERIALS	=	_____
THIS SPACE FOR PUBLICATION CENTER USE		_____

SPORTS NETWORKS

Barry S. Finkel (23)
10314 S. Oakley Ave
Chicago, IL 60643

Here are some miscellaneous sports network corrections and updates courtesy of Bill Hardy.

Seattle Seahawks (NFL)	1230 KVAX-AK The unknown Valdez station	(2)
	750 KERR-MT Moved from 1070	(2)
Seattle SuperSonics (NBA)	1320 KXRO-WA Add to network	(4)
	1450 KBKW-WA Delete from network	(4)
Philadelphia Flyers (NHL)	1230 WEEK-PA Typo listed as WEEK	(5)
New Jersey Devils (NHL)	620 WVNJ-NJ Does not carry Devils	(5)
	570 WHCA-NJ Correct flagship	(12)
Atlanta Hawks (NBA)	680 WCCN-GA Error listing as AB	(7)
Portland Trailblazers (NBA)	1190 KEX -OR Flagship confirmed	(7)
Tacoma Stars (MISL)	1360 KAMT-WA No network	(10)
New Jersey Nets (NBA)	Error listing as New York	(12)
Edmonton Oilers (NHL)	Rod Phillips & Jim Matheson announcers	
Los Angeles Lakers (NBA)	1240 KSMA-CA Part of network (I do not have a complete list.)	
Los Angeles Raiders (NFL)	1560 KPNC-CA Part of network (I do not have a complete list.)	

The numbers in parentheses at the end of the lines reflect the issue number of Volume 51 in which the error occurred (or was corrected). For soccer, I rely on local newspapers for flagship information. Bill Hardy heard the Tacoma Stars on KAMT, but I found no station listed in a local newspaper. Most large newspapers have a "Sports on Radio/TV" column; I always assume that the listings are complete.

Now a word about the scope of this column. I will include all "major league" professional sports and some (not all) "minor league" sports. I do not go out of my way to collect minor league sports information, although I will accept information from readers. I will not get involved in college sports networks for a number of reasons. First, the subject is much too broad; there are too many colleges and universities. Second, I am opposed to big-time college sports; colleges are for study and learning, not for "professional" athletics. The only exception is the listing of the college Bowl games on the major radio networks.

(CBC) RADIO GUIDE Dec 83

STATION IDENTIFICATION

CBC RADIO AND CBC STEREO

The Canadian Broadcasting Corporation operates two national English language radio services: CBC Radio (AM and FM) and CBC Stereo (FM only). Depending on where you live, you may have access to both. CBC broadcasts national, regional and local programs to all parts of Canada. Northern Service stations also broadcast in Inuit and Indian languages. The list on this page shows the stations nearest you, and their frequencies. To determine your time zone, consult the map. Saskatchewan Time (ST) applies in summer only. When programs are broadcast at different times in different regions, regional times are shown in the listings below the first, boldface, broadcast time. Unless otherwise specified, all



CBC RADIO

LA BONGE	105.9 FM
Medicine Hat	1400 AM
EDMONTON	740 AM
Park Murray	89.3 FM
Drumheller	352.7 FM
Red Deer	325.5 FM
CALGARY	3030 AM
Lethbridge	300.3 FM
Drumheller	300.3 FM
Trail	106.7 FM
Verona	106.5 FM
Saskatoon	95.7 FM
Pawnee	93.3 FM
Regina	94.3 FM
WAGUIWEE	900 AM
Prince George	91.5 FM
ICBAND	101.1 FM
PRINCE GEORGE	900 AM

CBC STEREO

PROGRAMS BY	1230 AM
BANKER INLET	1200 AM
WYVVE	800 AM
YELLOWKNIFE	1340 AM
WHITEHORSE	570 AM
ST. JOHN'S	254.9 FM
Cape Breton (STONEY)	255.9 FM
HALIFAX	282.7 FM
FREDERICTON SAINT JOHN	121.5 FM
MONCTON	95.5 FM
MONTREAL	93.5 FM
OTTAWA	133.3 FM
Kingston	92.9 FM
Peterborough	103.9 FM
TORONTO	94.1 FM
London	106.5 FM
WINDSOR	89.3 FM
WINDSPIC	96.3 FM
WINDSOR	92.7 FM
WINDSOR	96.9 FM
SASKATOON	255.5 FM
EDMONTON	99.9 FM
CALGARY	302.3 FM
Lethbridge	302.3 FM
WAGUIWEE	105.7 FM

programs are heard half an hour later than the boldface time in Newfoundland. A maple leaf in the first week's listings denotes programs on Radio Canada International's shortwave service. For more information on any aspect of CBC programming, write to CBC Audience Services, Box 500, Station A, Toronto, Ontario M5W 1E6.

MAYBE A TREND FROM A.M. TO P.M. ON C.B.C. RADIO? - HI.

Copyright 1983 by Canadian Broadcasting Corporation