



DX NEWS

*the magazine of the
National Radio Club*

— SINCE 1933 —

Volume 54 Issue 21 Monday, March 2, 1987

Oops! Mikee is back into the Lake again! Seems he put the wrong issue number on the top of the last couple of issues! Take out your pen or pencil and change the following. Last issue, the orange colored bulletin should be issue 20, Feb 23rd; the off-white colored bulletin should be issue 19, Feb 17th. What a dummy.

Thanks to all zillion of you that sent us clippings on the FCC Call letter proposal. Check out the end of Jerry Starr's column, page 3, for comments on the change. What we can't understand is why change the rule? If it isn't broke why fix it. Perhaps a letter or two to Congress or the Senate might change the minds of the FCC....wouldn't hurt. Perhaps the FCC needs to be put into the lake, along with mike.

April Fools issue is just around the corner. Time to start thinking of what you want to put into the columns. Issue 24, March 30 is where the material will appear. The deadline to get your material into us is March 15th. Yep, that is only 4 weeks away! Send your material to **BQ** and **NOT** to the regular column editors, they have enough to do. Mark your material and envelopes "April Fools Issue".

CPC TEST (Times listed are Eastern Local Time)

Even if you don't hear the Test, why not send a postcard thanking the station anyway.

- Mar 2 KGGF-690 Coffeyville, KS 0100-0300 Test will be an extension of their regular programming, with possible Code IDs inserted. The station will also offer ~~US\$69.00~~ for the furthest report. Be accurate!! Restrictions are that your report must be received at the station by April 2, 1987 and this offer void if prohibited by local or state laws. Send your accurate report with a mint 22 cent stamp to: Mr. Jack Maxton, CE, Radio Station KGGF, Box 1087, Coffeyville, KS 67337. Test arranged for the NRC by Bob Harrison and Wayne Heinen.
- Mar 2 KKRE-1040 Monument, CO 0200-???? Program details unknown, may contain Voice and/or Code IDs. A Polite Reception report with a mint 22 cent to: Mr. Dan Hubbard, Station KKRE, Box 1385, Monument, CO 80132. Test arranged for the NRC by Ron Musco & Wayne Heinen.
- Mar 9 WKDO-1560 Liberty, KY 0015-0045 Test will consist of C&W music and Code ID. A Polite Reception report along with a mint 22 cent stamp to: Rick Wesley, Station WKDO, Box B, Liberty, KY 42539. Test arranged for the NRC by Ron Musco and Wayne Heinen.
- Mar 16 WEKS-1080 Marietta, GA 0100-???? Program details uncertain, but may contain Code IDs. A Polite Reception report along with a mint 22 cent stamp to: Ted Ronneburger, CE, Station WEKS, 19 Atlanta St., Marietta, GA 30061 Test arranged for the NRC by Herman Adams.
- Mar 16 WTPO-1050 Conyers, GA 0300-0330 Regular Programming, with possible Code IDs. A Polite Reception report along with a mint 22 cent stamp to: Lee Cook, GM, Station WTPO, 924 S. Main St., Conyers, GA 30207 Test arranged for the NRC by Herman Adams and Wayne Heinen.

LOOK INSIDE:

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| 2.....AM Switch | 4.....DDXD-East | 8.....DDXD-West |
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AM SWITCH

Jerry Starr, c/o WHOT Radio, 4040 Simon Road, Youngstown, OH 44505

CALL LETTER CHANGES

OLD CALL:	NEW CALL:	OLD CALL:	NEW CALL:
570 KIPN HI	LIHUE	KQNG	1330 WXTA IL
680 WCNN GA	NORTH ATLANTA	WGTW	1340 WAIR NC
770 WJMM KY	NICHOLASVILLE	WCGQ	1350 WJEB MI
960 KLAD OR	KLAMATH FALLS	KLKL	1400 KBGG OR
990 KGIC TX	BEAUMONT	KZZB	1450 KRXX OR
1120 WWCC MA	CONCORD	WADN	1490 KKLX ID
1130 WPUB SC	CAMDEN	WVEF	WBMX IL
1240 KOCA TX	KILGORE	KTXC	1590 WUSJ TN
1290 WOPY NC	JACKSONVILLE	WJCV	KYCX TX
WSBL NC	SANFORD	WKXL	

APPLICATIONS FOR NEW STATIONS

700 WA	CAMAS: 25000/1000 U4	(REAPPLICATION)
880 CA	DESERT HOT SPRINGS: 500/250 U1	
FL	SEFFNER: 2500/1000 U4	(REAPPLICATION)
1060 TX	LOCKHART: 250 D3	
1180 NJ	MAURICE RIVER TOWNSHIP: 2300 D3	
1330 TN	HENDERSONVILLE: 700/500 U4	
1490 NH	LANCASTER: 1000/1000 U1	
1520 TX	MAGNOLIA: 5000 D3	
TX	SPLENDORA: 50000 D3	

GRANTS FOR NEW STATIONS

700 CA	SOLEDAD: 1000/500 U5
720 FL	HERNANDO: 10000/250 U2

APPLICATIONS FROM EXISTING FACILITIES

720 WNOC NC	WAKE FOREST: RELOCATE TO APEX, NC, ANTENNA TO D1
840 KWDF LA	BALL: INCREASE POWER TO 10000 WATTS
1000 *APP ID	EAGLE: CHANGE FREQUENCY FOR THIS APPLICATION FOR NEW STATION TO 870 KHZ, STILL 10000 D3
1050 KOFY CA	SAN MATEO: NIGHT POWER TO 10000 WATTS
1140 WONQ FL	ORLANDO: INCREASE POWER TO 10500 WATTS
1210 KASY WA	AUBURN: ALTER CITY OF LICENSE TO AUBURN-FEDERAL WAY, WA, INCREASE NIGHT POWER TO 10000 WATTS (REAPPLICATION)
WSBI TN	STATIC: INCREASE POWER TO 1000 WATTS
1350 WYLS AL	YORK: TO 670 KHZ WITH 5000 D1
1390 KENN NM	FARMINGTON: INCREASE NIGHT POWER TO 1300 WATTS
1420 WEUC PR	PONCE: CHANGE TO 650 KHZ WITH 5000/5000 U1
1430 KCOH TX	HOUSTON: POWER TO 5000 WATTS
1470 KUTY CA	PALMDALE: NIGHT POWER TO 5000 WATTS
WTKO NY	ITHACA: NIGHT POWER TO 1000 WATTS
1580 WPGC MD	MORNINGSIDE: ADD 5000 WATTS NIGHTS, ANTENNA TO U4

GRANTS TO EXISTING FACILITIES

680 WCTT KY	CORBIN: POWERS TO 770/880 WATTS, ANTENNA TO U2
720 WRBR MS	RICHLAND: RELOCATE XR, CHANGES IN ANTENNA SYSTEM
WWII PA	SHIREMANSTOWN: POWER TO 2000 WATTS, ANTENNA TO D1
750 KOAL UT	PRICE: NIGHT POWER TO 6800 WATTS
1030 WBZE MD	INDIAN HEAD: CHANGES IN ANTENNA SYSTEM
1170 WDFB KY	JUNCTION CITY: POWER TO 1000 WATTS
1190 KPZE CA	ANAHEIM: REDUCE NIGHT POWER TO 1300 WATTS, CHANGES IN ANTENNA SYSTEM
1220 WLPO IL	LA SALLE: ADD 500 WATTS NIGHTS, ANTENNA TO U2
1250 KOKY AR	LITTLE ROCK: REDUCE POWERS TO 1200/2000, ANTENNA TO U4
1260 WFTW FL	FORT WALTON BEACH: REDUCE POWER TO 1520 WATTS, CHANGES IN ANTENNA SYSTEM
1340 WIZE OK	SPRINGFIELD: RELOCATE XR
1420 KPEL LA	LAFAYETTE: REDUCE NIGHT POWER TO 750 WATTS
1480 WMIB FL	MARCO ISLAND: CHANGES IN ANTENNA SYSTEM
1490 WTVL ME	WATERVILLE: CHANGES IN ANTENNA SYSTEM
1600 WRBN GA	WARNER ROBINS: CHANGES IN ANTENNA SYSTEM

OTHERNESS

650 KUUY WY	ORCHARD VALLEY: IS HERE NOW, EX-870 KHZ, VERY SPEEDY WITH THIS CHANGE WHICH WAS GRANTED ONLY A MONTH AGO
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670 KDIG AK	DILLINGHAM: DESPITE EARLIER STATEMENT, THEY NOW PLAN TO GO TO HIGHER POWER (10000 WATTS) IN JULY 1987 ACCORDING TO THE ROBINSON, CI
750 WZOM IL	BROOKPORT: REQUEST FOR EXTENSION OF CP FOR NEW STATION DIED IN SAND POINT: THIS STATION IS A RELAY OF KDIG-670 KHZ, DOES NOT OPERATE SATURDAYS OR SUNDAYS, AUDIO IS RECEIVED BY SATELLITE
840 KSDP AK	DAWSON CREEK: IS HERE NOW EX-1350 KHZ
890 CJDC BC	BLOUNTS TOWN: SILENT AS WKMK IS NOW ON WITH GOSPEL FORMAT
1000 WYBT FL	BELLEVUE: NEW STATION EXPECTED ON BY "MID MARCH" AND WILL BE 24 HOUR NEWS WITH CBS NET ACCORDING TO STEVE BROWN, MANAGER
1180 KKAR NE	WALKINSVILLE: APPLICATION FOR NEW STATION DISMISSED
1230 *APP GA	FORT McMURRAY: MOVE TO 350 KHZ HAS BEEN CANCELED, THEIR APPLICATION FOR 5000/2000 U1 IS FOR 1230 KHZ AS LISTED IN AM SWITCH SEVERAL ISSUES AGO
CJOK AB	BOSTON: STATION IS SILENT PENDING SALE
1510 WMRE MA	CANANDAIGUA: APPLICATION FOR FULLTIME ON 1310 KHZ DISMISSED
1550 WCGR NY	WEST VALLEY CITY: ACCORDING TO DON BAUMCARTNER WHO CALLED THE STATION, THE AM CALL WAS CHANGED BACK TO KRGO EVEN THO' THE FCC DATABASE STILL DOES NOT REFLECT THIS CHANGE. MAYBE THIS WILL END THIS SAGA.
KRGO UT	

THANKS TO DON AS WELL AS THESE OTHERS WHO CONTRIBUTED INFO FOR THIS OTHERNESS: BOB MCCOY, TIM KARNATH AND OLLE ALM

THE F.C.C. STRIKES AGAIN: THE GREAT DEREGULATION STEAMROLLER IS ABOUT TO CRUSH ANOTHER LONG-STANDING TRADITION (AND RULE) WITH THEIR LATEST CALL LETTER PROPOSAL. THE COMMISSION IS CONSIDERING LIFTING THE RESTRICTIONS ON "W" AND "K" CALLS ACCORDING TO GEOGRAPHIC AREAS SINCE THERE IS "NO PUBLIC INTEREST JUSTIFICATION" FOR CONTINUING THE RESTRICTIONS. THE FCC ALSO SITES THE CASES IN WHICH WAIVERS WERE GRANTED FOR USE OF W'S IN THE WEST AND K'S IN THE EAST WITH NO ILL EFFECTS. THE PLAN FURTHER CALLS FOR A CHANGE IN THE "OWNERSHIP" OF CALL LETTERS. PRESENTLY A CALL MAY BE USED IN DIFFERENT LOCATIONS BY THE SAME OWNERSHIP BUT FOR DIFFERENT SERVICES SUCH AS KABC (AM) AND KABC-TV IN SEPARATE CITIES. NOW THE COMMISSION PROPOSES THAT ANY STATION REGARDLESS OF OWNERSHIP CAN REQUEST CALLS NOT ALREADY ASSIGNED TO THAT PARTICULAR SERVICE. LET'S USE KABC AS AN EXAMPLE AGAIN. CAP CITIES/ABC PRESENTLY IS NOT USING THE KABC CALL FOR AN FM STATION, ONLY AM AND TV. UNDER THE PROPOSAL ANY FM STATION CAN REQUEST KABC-FM. AND, IN A REMARKABLE MOVE, THE FCC HAS PROPOSED THAT SOMEBODY COULD REQUEST AN UNUSED CALL-PER-SERVICE IN THE SAME MARKET! IE: WHERE THAT CALL IS ALREADY USED BY ANOTHER SERVICE AS LONG AS WRITTEN PERMISSION IS OBTAINED FROM THE OWNERS OF THAT CALL FOR ANOTHER SERVICE IN THE SAME MARKET! THIS WOULD MAKE IT POSSIBLE FOR THERE TO BE A KABC AND KABC-FM BOTH IN LOS ANGELES UNDER TOTALLY SEPARATE OWNERSHIP. OF COURSE IT IS HIGHLY DOUBTFUL THAT ABC WOULD SIGN SUCH AN AGREEMENT, BUT EVEN WITHOUT AN AGREEMENT AN OWNER IN A DIFFERENT MARKET COULD APPLY FOR THE FM CALL. AGAIN, WE HAVE USED KABC ONLY AS AN EXAMPLE. THERE ARE HUNDREDS OF STAND-ALONE CALLS ASSIGNED TO A SINGLE SERVICE AROUND THE COUNTRY. KABC-FM IN BALTIMORE? WMM5-AM IN SEATTLE? AS THE SAYING GOES: IT DOES BOGGLE THE MIND. WHILE THIS IS ONLY A PROPOSAL, HISTORY SHOWS THAT THE COMMISSION'S OTHER CALL RELATED PROPOSALS HAD A WAY OF BECOMING LAW IN VERY SHORT ORDER.

73 AND GOOD DX.

Jerry Starr & BKF
 JERRY STARR & BUFFALO K. FOONMAN

- Listener Demand 23.5%
- Advertiser Demand 21.7%
- Format Change 15.1%

NTIA AM Stereo Findings

Why AMs Avoid Stereo

- Not enough receivers 46.7%
- Fear of choosing "wrong" system 41.6%
- Can't afford equipment 39.1%
- Continuing Maintenance/Engineering Costs 34.4%
- Wrong Programming Format 33.7%
- Stereo Unimportant To AM 33.1%

Why AMs Adopt Stereo

- Improve Sound Quality 30.6%
- Compete With FMs in Market 28.4%
- Compete With AMs in Market 25.1%

Why AMs Pick Kahn Or Motorola

- Availability of Sets 27.5%
- Technical Superiority 26.9%
- Technical Support From Manufacturer 26.4%
- Others in Market Chose Same System 22.8%
- Least Cost 23%

Average Cost Of Conversion \$17,000

Based on NTIA survey of 931 AM stations. Totals exceed 100% because station were able to mention more than one reason in each category.

DETAILS PAGE 11

④ DOMESTIC DX DIGEST - EAST

William R. Hale, 9823 N. Meadow, Converse, TX 78109

MIDDAY TO MIDNIGHT

560 KMOM MT GREAT FALLS - 1/16 2303 \$ 5-60 KMOM; CWM, promo for a countdown pgm; fair w/KLZ (NJW-MB)
 CJKL ON KIRKLAND LAKE - 1/30 2359 in w/ROK mx, mostly Canadian artists; has been in several nites lately (HJH-PA)
 580 CKAP ON KAPUSHKASING - 1/30 2355 in w/AM-58 ID & T40 mx (HJH-PA)
 600 WCAO MD BALTIMORE - 1/13 2030 poor in Cuban null w/CWM & Radio 60 WCAO ID (CR-IL)
 610 WDAF MO KANSAS CITY - 1/16 2241 CWM, IDs as 61 Country WDAF; fair w/KZSS (NJW-MB)
 KZSS NH ALBUQUERQUE - 1/16 2310 w/2 Doobie Bros Oldies; ID in between as *The new star 610 AM, KZSS*; fair w/WDAF (NJW-MB)
 620 WHEN NY SYRACUSE - 1/24 1821 poor, in briefly in WTMJ null w/ID between songs (CR-IL)
 640 WCRV TN COLLIERVILLE - 1/10 1730 fair w/end of REL pgm & ID (CR-IL)
 660 WESC SC GREENVILLE - 1/25 1740 fair w/CWM, s/off @ 1745 w/ments of FM (CR-IL)
 KTNN AZ WINDOW ROCK - 1/16 2316 CWM, ID *The Navajo Nation's Country Giant, KTNN*; fair w/CFRR (NJW-MB)
 670 KWXI AR GLENWOOD - 1/24 1735-1830 strong @ times o/u/WMAQ/YVLL w/Quixie IDs, CWM folo by full-data s/off, no SSB; probably my UNID of a few weeks ago (JF-ON)
 680 KKYX TX SAN ANTONIO - 1/18 1835 good in WPTF null w/CWM concert; *Great Country 68, KKYX* IDs (CR-IL)
 710 WFNR VA BLACKSBURG - 2/4 1715 smashing WDR/CJRN w/promo for *Super Country* (JS-OH)
 860 KOSE AR OSCEOLA - 1/17 1801 fair w/ABC Nx, wx, 8-60 KOSE ID (CR-IL)
 WAMO PA PITTSBURGH - 2/1 1754-1800 GOS mx, full-data s/off @ :00; all u/CJBH; my catch of the year!! (TF-CT)
 870 KPRM MN PARK RAPIDS - 1/10 1705 fair in WKAR null w/nx, ID, mx (CR-IL)
 WMTL KY LEITCHFIELD - 1/18 1722 poor in mess w/CWM mx & ID (CR-IL)
 910 KCJB ND MINOT - 1/24 1751 fair w/Air Force ad, wx, ID (CR-IL)
 940 KVSH NE VALENTINE - 1/18 1825 fair+poor w/NE State Nx, wx, s/off @ 1829 (CR-IL)
 970 KXTP WI SUPERIOR - 1/26 1756 fair o/u/WAVG w/s/off w/SSB (CR-IL)
 980 CKGM PQ MONTREAL - 1/29 2347 topping 2-mile distant WILK in their null w/ROK mx, IDs (HJH-PA)
 1000 WIQT NY HORSEHEADS - 2/4 1723 o/looped WCCD w/promo for *The Movie Game* contest; hasn't moved to 820 yet, dual ID w/Elmira, NY (JS-OH)
 1040 CHR8 PQ LONGUEUIL - 1/13 2320 mixing w/WHO w/POP mx & FF tlk; many IDs hrd (CR-IL)
 1080 KYMN MN NORTHFIELD - 1/17 1752 mx by Eddie Money & Starship, ID as *Mx Radio, \$ KYMN*; poor in KNDK null (NJW-MB)
 WEEP PA PITTSBURGH - 2/10 1744 w/IDs u/WCII (JH-KY)
 1110 KTEK TX ALVIN - 1/31 1840 fair in KFAB null w/community calendar, ID, s/off @ 1845 (CR-IL)
 1150 WMET MD GAITHERSBURG - 1/26 1456-1520 strong (local) for CL change; *The Metro Stn*; Oldie, canx notices (day of big snow)(HH-MD)
 1160 WYNS PA LEHIGHTON - 2/1 1657 ROK mx, annmt WYNS, *Lehighton temporarily operating on 1160 kHz for test purposes*; also hrd 2/8 @ 1435, atop freq; guess he'll be a regular (TF-CT)
 WCCS PA HOMER CITY - 2/7 1740 fair w/ads mentg Indiana *The Amazing AM* slogan, PSA for Citizen's Ambulance (LMC-NY)
 1190 KJLA MO KANSAS CITY - 1/22 1806 lcl wx, presently @ *KJLA studios it's 220*; song by female; poor u/KVSV (NJW-MB)
 1210 WILY IL CENTRALIA - 1/17 1700 s/off in the middle of an Ann Murray song; poor (NJW-MB)
 1220 CJSS ON CORNWALL - 1/30 1725 briefly atop WGAR w/T40 mx (LMC-NY)
 1230 KFJB IA MARSHALLTOWN - 1/20 1840 ID into Steve Winwood rcd; poor+ fair w/KWIX (NJW-MB)
 KWIX MO MOBERLY - 1/20 1900 ID *KWIX AM & FM*; CBS NX, lcl sps @ :24; poor w/KFJB (NJW-MB)
 1290 KIVY TX CROCKETT - 2/10 1749 several ments of Crockett & ad for Russell Stover Candy for Valentine's Day from lcl drug store; fair w/KBUC off w/WR problems (WRH-TX)
 WKNE NH KEENE - 2/8 1900 fair w/legal ID, CBS NX (LMC-NY)
 WHIO OH DAYTON - 2/4 1802 mixing w/CJBK w/lcl nx, Bob Larsen w/Accu-Wx (LMC-NY)
 1310 WTTL KY MADISONVILLE - 1/24 2032 w/lcl BKB coverage; atop freq most of time (JR-NJ)

WSSJ NJ CAMDEN - 1/30 1751 fair w/sps show promo, *1310 WSSJ ID* (LMC-NY) ⑤
 WNAE PA WARREN - 2/8 1600 ID, into UPI Nx; good (HJH-PA)
 1320 CFGM ON RICHMOND HILL - 1/26 1806 sps, ID, CWM; fair w/KELO (NJW-MB)
 1330 WASA MD HAVRE DE GRACE - 2/4 1755 good o/looped WHOT w/clear ID+CBS Nx @ :00; dual ID w/WHDG-FM & Wilmington, can they be hrd there? (JS-OH)
 WBTM VA DANVILLE - 2/4 1749 atop looped WHOT briefly w/cluster of lcl ads & ID (JS-OH)
 1340 KCKN KS KANSAS CITY - 1/20 2158 ID *KCKN Kansas City, solid gold Country*, folo by CWM; fair (NJW-MB)
 WGAW MA GARDNER - 2/8 1645 ID atop freq, possibly running NOS; in WNHC null (TF-CT)
 WBRK MA PITTSFIELD - 2/8 1612-28 Oldies, ID; CBS Sps; weak, in WNHC null (TF-CT)
 1360 WIXZ PA MCKEESPORT - 2/4 1753 poor u/WDRG/much noise w/nx, ad for McKeesport Dental Ctr (LMC-NY)
 1370 WPAZ PA POTTSTOWN - 2/7 1730 w/lcl nx; atop freq (TF-CT)
 1380 WNAQ CT NAUGATUCK - 1/30 1615-30 strong w/POP Oldies & ID *You're good as gold, WNAQ*; ex:WNVN; think they sometimes forget LSS power/pattern change (JF-ON)
 WSYB VT RUTLAND - 2/8 1557-1605 ROK mx, NBC Nx; way o/WNAQ/WKDM (TF-CT)
 1390 WRSC PA STATE COLLEGE - 2/6 1802 poor w/several lcl ads (LMC-NY)
 WFMJ OH YOUNGSTOWN - 2/8 1630 popping in & out w/what seemed to be T40 mx; could this be an example of a stn readopting an old frmt?? (HJH-PA)
 1400 WJJK WI EAU CLAIRE - 1/21 1821 w/OLDieby Simon & Garfunkle, ID by female, promo for Milwaukee Bucks BKB on your sps authority, 14-JJK; fair and alone (NJW-MB)
 1450 WXVW IN JEFFERSONVILLE - 1/21 1852 w/AM 14-50 *WXVW radio is greater Louisville's good mx stn* ads; poor under WASK/WMOH(NJW-MB)
 WMOH OH HAMILTON - 1/21 1836 female w/14-50 M-O-H IDs, ad for George's Dress Shop (Boy George?-WRH), promo for Nat'l Mx Survey pgm, various Oldies from 1970-72 era; faded @ 1855; fair+poor w/WASK/WXVW (NJW-MB) (Neil, Arizona was done by Mark Lindsay a hit in '70-WRH)
 KYNT SD YANKTON - 1/18 1725 brief fade-in w/wx, promo for Disneyland trip contest from KYNT; poor (NJW-MB)
 WDLB WI MARSHFIELD - 1/18 1700 Ai Nx, ID, lcl nx; poor w/KZZJ(NJW-MB)
 1460 CJOY ON GUELPH - 1/26 1815 w/farm wrap-up, ID C-Joy, Kool & the Gang rcd; fair w/KSO/KLTC (NJW-MB)
 1470 WMGZ PA FARRELL - 1/25 1858-1931 w/Request Oldies Party; *The New WNG2*; wx; good, usually atop freq (HH-MD)
 1480 WCNS PA LATROBE - 1/26 1741-1810 usually good -slight to hvy QRM jumble of stns; contest, nx, sps, wx (HH-MD)
 1510 KZZI UT WEST JORDAN - 1/23 1835-58 w/(presumed) ranchero mx; slogans hrd repeatedly sounding like Radio Frontiers or Radio Ranchera, a few SS anncts (or ads)which mentd SLC; finally an EE ID *KZZI, West Jordan, UT @ 1859*; fair+poor w/KDKO/WLAC (NJW-MB)
 WAUK WI WAUKESHA - 1/23 1600 *We're playing the best of the country on K-Country, 1510 WAUK*; CWM; fair w/WLAC/KCCV (NJW-MB)
 1540 CHIN ON TORONTO - 1/23 1536 presumed the here u/KXEL w/tlk in Italian, then Italian song; poor (NJW-MB)
 1560 WTOD OH TOLEDO - 1/23 1547 Everly Bros tune, ID *Country Gold WTOD*; poor w/KKAA (NJW-MB)
 1570 WKBH WI HOLMEN - 1/23 2344 poor w/ID & ads (CR-IL)
 WQTW PA LATROBE - 1/24 2346 fair w/T40 mx, 95.5 WCLY IDs (CR-IL)
 WFLR NY DUNDEE - 2/6 1725 fair w/ad for gas stn in Penn Yan, wx (LMC-NY)
 1580 WOXR AL OXFORD - 1/24 1748-1801 mx, wx, ads; dropped out suddenly @ 1801; good atop freq before that (HH-MD)
 WLIM NY PATCHOQUE - 2/3 1700 up briefly w/lcl ID, lcl nx (LMC-NY)
 1590 WTVB MI COLDWATER - 1/23 1634 w/CHR, ID *16-TVB*, ment of event @ Coldwater Elks Club; into Paul Young tune; fair w/KCNN (NJW-MB)
 WUSJ TN JONESBORO - 2/5 1952-2128 fairly good+good; moderate+hvy WAKR QRM; TN-Vanderbilt BKB, PSA, ads (HH-MD)
 WCBG PA CHAMBERSBURG - 2/6 1740 up briefly o/jumble/unusually weak WQQW w/CWM, jx (LMC-NY)
 WGGO NY SALAMANCA - 2/6 1745 thru mess w/full-data s/off (LMC-NY)
 1600 WUNI WV WHEELING - 2/6 1750 good, mixing w/WWRL w/Bob Dylan song, ad for Avis Rent-a-Car of WV (LMC-NY)

⑥

MIDNIGHT TO MIDDAY

560 WEBC MN DULUTH - 1/12 0310 in briefly o/KLZ w/ID; WIND off (CR-IL)
 690 WZAP VA BRISTOL - 1/22 0746 fair in WVOK nullw/ID & CWM (CR-IL)
 740 CBX AB EDMONTON - 1/10 0200 fair w/This is CBC Radio folo by nx (CR-IL)
 790 CFCW AB CAMROSE - 1/19 0952 CWM, ID; poor in CFCG null (NJW-MB)
 900 WNN0 WI WISCONSIN DELLS - 2/3 0756 fair in WLS slop w/CWM, ID, wx (CR-IL)
 WFIA KY LOUISVILLE - 2/4 0759 poor in WLS slop w/REL pgm, quick ID & more REL (CR-IL)
 920 KXLY WA SPOKANE - 1/18 0258 Jim Bohannen Show, lcl sps, ID & CBS Nx @ :00; poor in CFRY OC (NJW-MB)
 1010 WXYQ WI STEVENS POINT - 2/3 0811 fair in WCFL slop w/nx, wx & ID (CR-IL)
 WIOD OH NEW BOSTON - 2/5 0805 weak w/ID & ads (JH-KY)
 1020 WKZE CT SHARON - 1/21 0721 v/weak in KDKA null w/lcl nx, sps, wx (JR-NJ)
 1030 WBZE MD INDIAN HEAD - 2/5 0726 good u/WBZ w/ID (JH-KY)
 1040 CIOF BC VANCOUVER - 1/10 0147 poor in WHO null & LA QRM w/POP mx & 1040 AM RADIO non-IDs (CR-IL)
 WSKE PA EVERETT - 1/30 0718 o/u/WHO w/wx & school delays; JK IDs (JR-NJ)
 WSKE PA EVERETT - 2/5 0719 good in WHO null w/CWM (JH-KY)
 1100 KKLL MO WEBB CITY - 2/5 0931 w/ID & ment of Webb City (JH-KY)
 1120 WYNO OH NELSONVILLE - 2/5 0941 fair w/ID (JH-KY)
 1210 WGSF TN ARLINGTON - 2/6 0849 fair w/ID & ment of S (JH-KY)
 1220 WLSD VA BIG STONE GAP - 2/6 0918 ID w/CWM, CBS Nx @ 0900 (JH-KY)
 1230 WDJ0 OH CINCINNATI - 2/6 0954 ID & MYL u/WHIR (JH-KY)
 1310 KXAK NM CORRALES - 2/11 0930-50 REL pgmmg; ID @ :30; lcl KBUC off (AB-TX)
 1400 KBRB NE AINSWORTH - 1/21 0848 w/lcl wx, ment of an event on Hwy 7, promo for KBRB Super Bowl contest; poor in mess (NJW-MB)
 1430 WDIC VA CLINCHCO - 2/4 0627 poor in mess w/ID, CWM (CR-IL)
 1450 WMIQ MI IRON MOUNTAIN - 1/21 0906 briefly in w/anniversary msg ments the stn's old sps director; Best wishes to WMIQ on its --?-- anniversary; poor (NJW-MB)
 WASK IN LAFAYETTE - 1/21 0104 nx, ID 14-50 WASK into Talknet; again @ 1850 w/Air Supply mx, NBC NX @ :00, :05 wx from Lafayette's official wx stn → Mac Davis Oldie; poor w/WXWV (NJW-MB)
 1490 KORN SD MITCHELL - 1/22 0058 end of LK, lcl nx, s/off @ 0106 w/slow piano version of SSB; poor (NJW-MB)
 1570 WPTW OH PIQUE - 1/24 0001 poor in mess w/ID & nx (CR-IL)
 1580 WPGS MD MORNINGSIDE - 1/25 0831 fair w/T40 mx, 95.5 WCLY IDs (CR-IL)

SPECIAL

700 WLW OH CINCINNATI - 2/8 0125 completely off for 2nd time this year; Jamaican on top of SS; WLW returned 0201 w/no mention to down time; a real treat since the XR is 9 miles away (CK-OH)
 800 KOAD MN LAVERNE - 2/9 0030-0103 w/simulof FMer, female anncr, CWM, full-data s/off @ 0103; per call to stn, they are U3 500; new (AB-TX)
 890 KVOC TX LAREDO - per call to stn, they are not, repeat, not on 890 yet; expect to be there mid- to late-March (AB-TX)
 1000 WSUM OH PARMA - 1/25 1500 IDd as WSUM after REL pgm; no change to WCCD yet (JF-ON)
 1460 KKOK NE KEARNEY - 1/24 1715 ex:KRNy w/OLDies, ID The Oldies Channel & the classic hits of the 50's, 60's & 70's on KNOA; poor w/KSO/KKAQ (NJW-MB)
 1580 WKUN GA MONROE - 1/23 0629-0702 on early w/storm warnings (snow, etc); usually atop freq (HH-MD)
 1600 WT2Q NC HENDERSONVILLE - 1/25 1646 think this was weak 1 in jumble w/POP Oldies; hope I hrd CLS right; ex:WHVL (JF-ON)

DX & EQUIPMENT TESTS

830 WCCO MN MINNEAPOLIS - 1/18 noted w/various TTs & OC; good→VG (NJW-MB)

UNIDs and UNIDs ID'd

680 WCNN GA ATLANTA - hrd 1/13 by GL-MS (issue 17) was probably WCNN; they dumped nx/tlk about 6 months ago & switched to a satellite feed of STDs, ID as Stardust 68, and of course, still carry CNN Nx (RL-GA)

⑦

690 UNID ?? - 2/8 1825 poor in SS null w/STDs, male DJ w/very deep voice (LMc-NY)
 1510 UNID ?? - 1/23 1615 w/CHR/AdCon (Starship & Bruce Hornsby); IDs AM \$ 15; poor w/WCCV (REL) & WAUK (CWM); neither KDKO (BLK) or KZZI (SS) were in yet (NJW-MB)
 1520 UNID ?? - 1/13 2120-2230 stn TTING looped NE/SW w/WWKB/KOMA; hrd again w/TTs 1/14 @ same time; the new anti-Nicaraguan clandestine testing?? (NJW-MB) (Maybe, Artie Bigley told me he hrd something like which he thot was them-WRH)

TIS and other...

530 KNSJ244 TX BEAUMONT - 1/23 1645 very detailed looped taped rpt of maintenance on I-10 in Beaumont area on Highway Advisory Radio by the State Dept of Hwys and Public Transportation in cooperation w/the City of Beaumont Fire Dept, KNSJ244; L&C @ 75 miles (IE-TX)

News and Notes

◆ PLEASE!! When sending in your catches, DO NOT cut the paper in strips!! I received some like that this week and about had a coronary when I saw them. Just put the data in frequency order into the proper groups and send it in on one side of the paper. Many thanks. Now, for another nitroglycerin pill. Also, please use ELT when reporting to the DDXD-columns, not GMT, UCT or whatever they call it this week.

◆ JACQUES CARTIER LIVES!! Jeff Falconer reports "Regarding CHRS-1040, ex 1090, QTH is indeed Jacques Cartier. I checked several atlases (atli?-WRH) and finally found it in my 1970 National Geographic atlas. It is located a mile south of Longueuil". That's right, folks, they're both there, side by side, 'burbs of Montreal. Now, we must determine where the hell CHRS really is. Somebody up Montreal-way please (preferably FF speaking) call them guys and ask 'em where they are so we can straighten this snafu out. But, until we hear otherwise, and since Broadcasting YB says they are in Longueuil, we'll leave them there. Jeff, thanks for digging up Jacques, he's not dead yet!

◆ Jody Hughes has gone north from FL to KY, and checks in with his initial report from the Bluegrass State.

◆ Welcome to new reporters Isaac Eaves, Chuck Kaufman & Russ Lay. I'm looking forward to all the DX reports you promised!

◆ Locally, KRNN-93AM is about to change hands. The two-year old News/Talk Stn is changing to more talk, less news. From 0600-1800 (lcl) they have four three-hour lcl tik shows, wrapped around nx, wx, sps & trffc updates. From 1800 around to 0600 it's tik shows from ABC & MBS. They cut out hard nx segments from 0600-0900 and 1600-1830, plus a sps tik show @ 1830. More on this as it develops. Bottom line here is: they just couldn't compete w/WOAI.

Reporters:

NJW-MB Neil Wolfish//Winnipeg, MB//ICF-2010 + LW
 CR-IL Christos Rigas//Chicago, IL//R-2000 + Kowalski Loop
 JF-ON Jeff Falconer//Clinton, ON//NRD-515/NRD-525 + loop/LW
 JR-NJ Jeff Ross//Flemington, NJ//ICF-2010
 IE-TX Isaac Eaves//Crosby, TX//
 TF-CT Tony Fitzherbert//Fairfield, CT//
 CK-OH Chuck Kaufman//Lebanon, OH//
 HH-MD Hank Holbrook//Chevy Chase, MD//SP-600, National RBL-2 + Oolegrove Loop, 100' LW (E)
 AB-TX Artie Bigley//San Antonio//Superadio
 HJH-PA Harry Hayes//Wilkes-Barre, PA//Superadio + SM-2
 RL-GA Russ Lay//Doraville, GA//
 LMc-NY Laura McCusker//Kingston, NY//
 JS-OH Jerry Starr//Youngstown, OH//
 JH-KY Jody Hughes//Lexington, KY//R-1000 + RW Loop
 WRH-TX Ye hard-working Editor//Converse, TX//TRF, Superadio LW

73.



1906 Highland Ave., Cincinnati, Ohio 45219
 WKRO FM Taft Television and Radio Company Inc

WWCN
1460
 news/talk radio
 albany, new york

⑧ DOMESTIC DX DIGEST - WEST

Nancy Hardy, 2301 Pacific Avenue, Aberdeen, WA 98520

Welcome to another DDXD-West. Deadlines for March are Saturday the 7th and Saturday the 28th. Use one side of the sheet of paper & Eastern time.

SPECIAL

- 570 KQNG HI LIHUE - 2/1 2030 noted calling itself "A-M 57, we're Kong of Hawaii" & "We're Kong of Kaua'i" during AT-40 show. Per call, call change from KIP0 was 2/1 0501. Format remains AdCon/top 40, plus daily Filipino show 0900-1000 and C&W/Hawaiian shows on weekends. (5P-HI)
- 1380 KRKO WA EVERETT - 2/10 0300 "KRKO, Everett" ID, AP Network News. 0302 "Radio Free Everett" news, 0305 weather "at KRKO," AdCon music. 0309 DJ mentioned KRKO & request line. 0316 "Yes, it is true; KRKO is home," a reference to their requiring the KRKO calls from Fairbanks, Alaska. Ex-KRFE, which announced 2/9 the calls would change at this time. Usual moderate signal with trace of KTOM or KSMJ at times. (BH-WA)

MIDNIGHT TO MIDDAY

- 720 KDWN NV LAS VEGAS - 2/1 0304 AP Network News, canned ID "This is K-D-W-N 7-20 in Las Vegas..." plus microwave info; Giorgio Moroder song into the "West Coast A-M" talk show. Underneath semi-local KUAI but louder in partial null; this station is no longer audible at my QTH. Poor to very poor. (5P-HI1)
- 890 WLS IL CHICAGO - 2/1 0338 man running talk show with Top 40 music. 0343 station promo "The Great AM." Kept fading in & out, being replaced by unID (KDXU?). Poor to very poor, KNUI-900 QRM. (5P-HI1)
- 900 CJVI BC VICTORIA - 1/27 0230 with KALL-910 very quiet. (DB-UT)
- 950 KJR WA SEATTLE - 2/7 0130 on top for a while then gone. (DB-UT)
- 1090 UNID 2/1 0358 C&W music, no ID at 0400, into NBC News but 10 seconds behind local NBC affil. KHVH. I think this was under KING with Jim Bohannon, but my last list shows KING as an NBC station also, so I'm confused! Very poor with KFAQ-1100 QRM. (5P-HI1)
- 1210 KQTL AZ SAHUARITA - 2/7 0630 SS. (DB-UT)
- 1250 UNID 1/13 0030 looped N-S in WREN null with classical music. Poss. ID as "Northwest 95 FM." (DB-UT)
- 1330 UNID 2/1 0327 Jim Bohannon Show from MBS, possible local ad, into Mutual headlines at bottom of the hour, net ad, back to Jim. ID missed or absent. O/u KFAC with classical music so not them (even though it's a Mutual affil.). KLOM is SS and KLBS PP to 0300 s/off per Glen Kippel, and KUPL doesn't carry the show. Any ideas? Very poor. (5P-HI1) (Bill recently heard KUPL with Bohannon.--NH)
- 1390 KSLM OR SALEM - 2/4 0130 poor. (DB-UT)
- 1400 KBLX CA BERKELEY - 2/1 0409 Luther Vandross song, woman ID'ing as "The Quiet Storm, K-B-L-X, 14 hundred AM & 1??? FM Stereo" and additional chatter. Poor to very poor, just on top of GY channel mud. Call sign change logged, ex-KRE. (5P-HI1)
- 1430 KFIG CA FRESNO - 2/1 0416 "Drive" by The Cars, DJ said "...KFIG, where you request the songs & we play 'em" into "Careless Whisper" by George Michael. Very poor, KCCN-1420 sloop. (5P-HI1)
- 1480 KPHX AZ PHOENIX - 2/1 0425 in Spanish with clear ID. (DB-UT)

REPORTERS

DB-UT/Dan Baumgartner, Salt Lake City, UT/R-1000 with mods., loop
 BH-WA/Bill Hardy, Aberdeen, WA/FRG-7, Radio West loop
 5P-HI/Dale Park, Honolulu, HI/Realistic Minisette 16
 5P-HI1/Dale Park, DX'ing at Kailua, HI/Sony ICF-6700W

KDUZ AM 1260

KKJR 107.1FM

HIGHWAY 15 NORTH
 HUTCHINSON, MINNESOTA 55350

GX94

Broadcast Place
 120 Smith Street East
 Yorkton, Saskatchewan
 S3N 3V3

INTERNATIONAL DX DIGEST ⑨

Chuck Hutton, 437 Hardendorf Ave., Atlanta, GA 30307

404-633-1198 Before 2300 ELT

Times are GMT

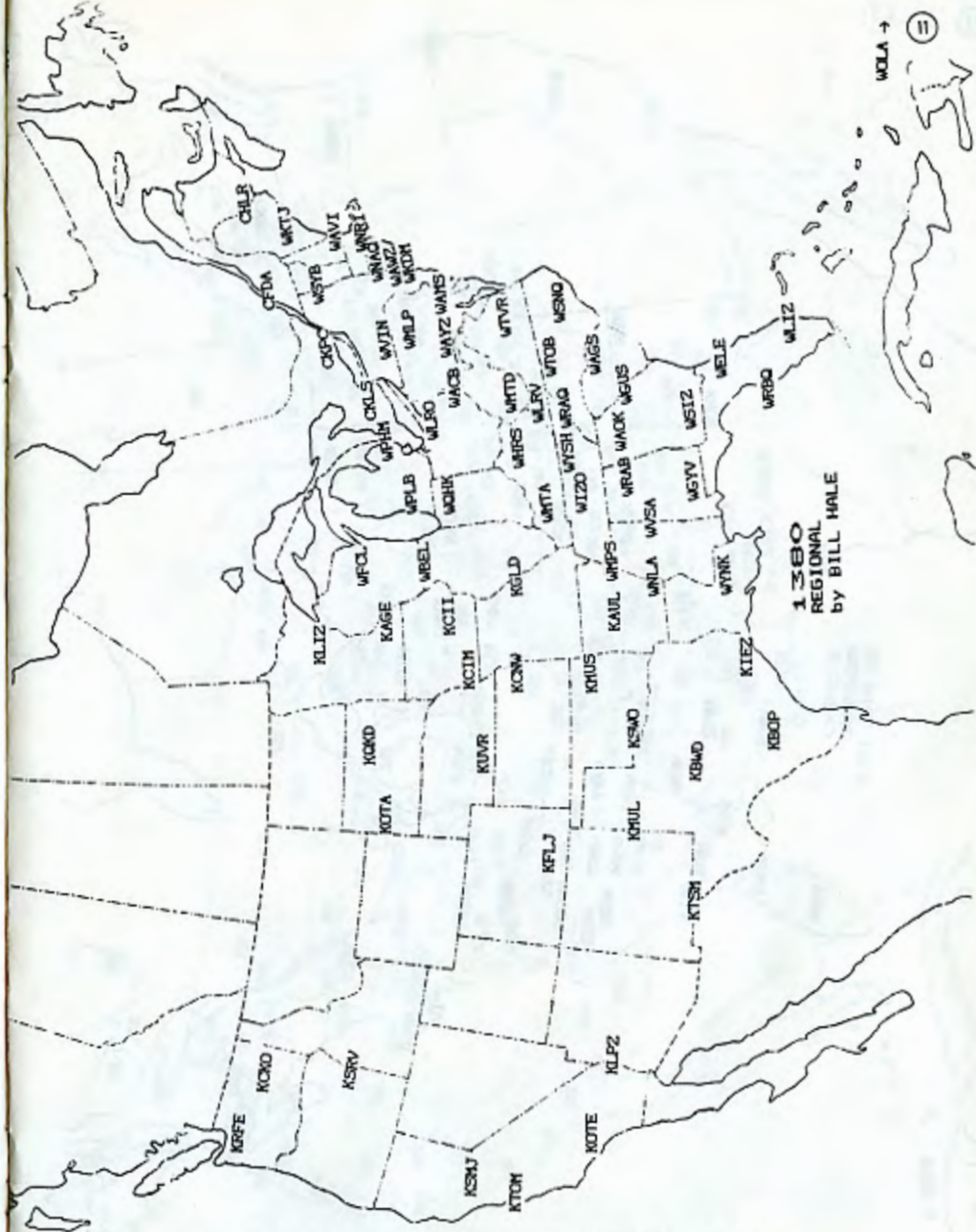
For ELT subtract 5 hours.

Deadline: Monday

- 153 WEST GERMANY DLF 1/25 0540 dominant on channel w/classical mx. Signal level 10-15 dB weaker than Allouis 162. A 2nd stn noted underneath: unid. (Bohac)
- 171 MOROCCO Nadour 1/18 2335 fair w/line noise with AA chanting. (Falconer)
- 171 USSR synchros 1/14 0300 bells, band and chorus with Russian NA. Good signal with no beacon QRM. Small variations in signal with slight distortion on fadeouts. Anthem lasted beyond 0303. 0304:06 male announcer "dobro ..." then female RR talk. 0304:15 electronic chimes (sob doh fah /sog. pause...tee lah tee/soh). Female says a few words then male RR talk, fairly readable. Some of the best reception of this stn here. Male and female alternating what seems to be news items till 0314. Pause. 0315 female announcer. 0315:10 introduced by male, traditional folk melody. 0315 female then piano music. (Weeks) 1/25 0550 children talking in RR, signal 5-10 dB stronger than DLF 153. After 0600 Morocco s/on, co-channel QRM. (Bohac)
- 177 EAST GERMANY Oranienburg 1/13 0240 male vocal on EE song Frank Sinatra style. Good signal with negligible QRM. 0244 with no announcer, lively orchestra with female vocal in minor key. 0245 female GG talk, not too easy to copy. 0247 2 chimed chords, long pause. Received occasionally before. (Weeks)
- 189 SWEDEN Motala 2/3 briefly 0445 0450 when plays 7-note IS. NSHD (non-synchronous heterodyne detection) mode employed in 2.3 KHz IF bandwidth LSB. Signal weaker than when Drake R7 is switched to normal AM mode, the Swedish IS became totally inaudible. Signal > 25 dB weaker than the xint 1/19 reception. Once IS ceased, audio intelligible owing to distortion produced by auroral flutter. (Bohac)
- 200 ENGLAND BBC Droitwich 1/31 0701 fair in beacon QRM w/BBC nx in EE. (Falconer) 1/25 0518-0525 male announcer w/commentary about Gorbachev and Communist party of USSR, Kohl and upcoming German elections. Franz Josef Strauss and the Bavarian CSU. Easy listening level, very stable. (Bohac)
- 209 MOROCCO/GERMANY 1/25 bad audio jumble here 0512. Two stns ID'd as Morocco and Germany. Latter playing rather sedate flute/piano classical mx till 0536 when male announcer in GG. Classical mx resumes 0537 after what appeared to be nx in GG. Seemed to be // DLF 153. (Bohac)
- 227 POLAND Konstantynow 1/25 0503-0523 w/Polish variety pgm or perhaps recorded night club act. Sig +35 dB above normal noise level, but with occasional heavy noise spikes from AC power line as strong as signal. (Bohac)
- 245 UNID 1/11 2158 female talk hard to copy, 2200 chime and male ID then what seems to be news. Shortly, shift to another male voice, sounding like an on-the-spot report. Poor and not heard here before. (Weeks)
- 245 NIL 1/25 no sign of Kalundborg, Denmark at 0500 s/on nor later on checks. (Bohac)
- 2541 ALGERIA Tipaza 1/11 2207 female FF-sounding talk, 3 or 4 fades per second with heavy beacon QRM. 2258 traditional popular mx but not Arabic, instrumental with electric guitar then female vocalist. Level good but with 3 slight fades per second and still quite heavy QRM. 2301 female FF talk presumably news. Quite readable in gaps between beacon sounds with words including "plusiers", "Le President" (you cheated that's two words-Chuck), "le premier". 2303 slow rock music with female vocalist. 2329 male vocal in slow song with guitar accompaniment. Never heard before here although I had received it with reasonable clarity when on the east coast of PEI. (Weeks)
- 263 UNID 1/25 0554 weak audio seemed // USSR 171: children talking in Russian, checking back and forth with 171, amle announcer in RR after 0600. no ID as fade and AC power line noise spikes. When audible, was best in NSHD mode to minimize noise, LSB 2.3 KHz in R7 to escape beacon QRM. (Bohac)
- 272 CZECHOSLOVAKIA Topolna w/usual folk music as heard since first reception on 1/15. Noted briefly 0415-0420 1/25. This snippet would have been as good reception as best heard during previous ten days had it not been for the noise spikes being generated on the AC power lines as snow ice laden tree branches create havoc in the area. (Bohac)
- 272 CZECHOSLOVAKIA/UNID 1/26 Topolna 0020-0027 fade with Czech pop tunes. Fade back up 0028, @ 0030 following is discernible: 6 time pipe consisting of 5 short and one long then 5 note Hvezda IS played twice. ID and into classical music toll 0100. Just before top of hour 6 time pipe as before. TC Hvezda IS twice followed by news in Czech. 0105 into program of mostly instrumental rock. Topolna begins to get chased on radio by -

moderately strong audible and visual SAH. This SAH signals presence of a 2nd station but no audio yet evident; 2nd stn is > 30 dB below Topolna. In time frame 0111-0115 2nd stn begins to be heard under Topolna but inasmuch as 2nd stn is still > 20 dB below, only marginally able to discern male annrcr. At this point, with 2.3 KHz IF and passband tuning employed, the Drake R7 was switched to non-synchronous heterodyne detection (in other words he went to sideband mode on a normal AM signal-Chuck) which helps alleviate noise that the Drake's noise blanker has not eliminated, and which at the same time produces clearer audio. While Topolna continued playing rock mx, they went into a 10 dB fade that lasted until 0123. In this interval, both stations were about equal in strength and audios badly jumbled. Could not extract specifics/lang on 2nd stn other than male/female annrcs noted. At 0123 Topolna faded back up some 10-12 dB, thus ending the unids visitation. On the half hour @ 0130 follows the Topolna procedure of 6 time pips, time check, IS, ID. Topolna's signal at 0139 back up > 30 dB above normal noise level. AC power line noise spikes occasionally evident as previous day. Rock mx continued until 0200. On hour same hourly procedure, followed by news in Czech until 0205 then traditional Czech/Moravian folk music. If one comes to conclusions based on assumptions, then one is to believe the possibility of the 15 kW USST xmr on the western edge of the Urals. This channel bears watching; pulling identifiable/listenable audio through Topolna's 1.5 MW at this NJ QTH is indeed marginal under the best of circumstances. What are NRC's Scandinavian members hearing on this channel? (Bohac) A report from the grand old Admiral Nelson School...Chuck

- 531 ALGERIA Ain Beida 1/16 0006 female AA chanting // 891. Het easily suppressed with 2.2 KHz filter. Pair, not as strong as 891. (Weeks)
- 535 GRENADA R. Grenada, Morne Rouge 1/19 0051 2 annrcs in heavily accented EE into reggae mx. (Falconer)
- 612 FRANCE in well SM 1/25 0700+ and many other mornings with a good signal, almost as strong as stuff on 800. (Cooper)
- 666 PORTUGAL Lisbon 1/19 0320 strong w/PP talk, soft pop mx. (Falconer)
- 670 CUBA R. Rebelde 1/22 2250 strong in WNAQ null w/lively dance mx, Rebelde ID's. Way over usual dominant YVLL. (Falconer) Usually dominant! I wish... Chuck
- 750 VENEZUELA Caracas YVKS R. Caracas 1/18 0800 strong o/u WSB w/EE and SS disco mx, many ID's. (Falconer)
- 783 EAST GERMANY Burg 1/16 0138 female GG talk // 177. Quite clear with no sign of Portugal. Long wave signal weaker but free of slop. 0143 rock number. (Weeks)
- 819 ANDORRA plus Egypt the likely other, 1/24 2130 and on, strong enough to ruin sunset DX on 820 with its severe 1 KHz het. (Cooper) So what would you rather hear-Andorra/Egypt or Texas???? Chuck
- 825 ST. KITTS R. Paradise, Basseterre 1/19 0044 fair w/religious program. Hasn't been near as strong here as it used to be. (Falconer)
- 864 UNID 1/17 2144 drumming with tribal sounding music (cf. Senegal), 2148 AA music with reed instrument doing melody and drums/strings in accompaniment. 2200 ID undetectable. Could this be Egypt? (Weeks) Why not? Chuck
- 945 FRANCE Toulouse 1/30 0615-0646 with xlnt signal. MoR music including "The Three Bells" by Les Campagnons de la Chanson, a group familiar to US listeners in the 60's. (Cooper)
- 1000 US VIRGIN ISLANDS WVWI Charlotte Amalie, St. Thomas logged 1/20 and 1/27 0702-0832 with the Larry King Show, WCPL on its regular Tuesday morning silent period. (Cooper)
- 1035 PORTUGAL Lisbon 1/19 0030 strong w/PP talk. The most reliable TA here. (Falconer) Saudi Arabia 1521 takes the prize here, or maybe Yugoslavia 1134-Chuck
- 1062 DENMARK noted many mornings and they have EE news period daily at 0730, and they're still in well at that hour here. (Cooper)
- 1134 YUGOSLAVIA logged 1/8 2130 while still daylight here, dandy signal and new country for me; reported. (Cooper) Tentative, 1/20 0109 polka music with vocal duet rather similar to Swiss music, 0159 rock number, good signal but with some WNEW-1130 slop. 0200 2 long beeps. Male annct, continues into news bulletin. Slavic and gutteral sounding. (Weeks)
- 1160 BERMUDA still dominant here before sunset even, and also early mornings. Report is out over two months; no verie. I understand the Bible Broadcasting Network verifies for this stn from their HQ in Chesapeake, Virginia. My report went to Hamilton, Bermuda. (Cooper)
- 1377 FRANCE Lille 1/31 0709 fair w/PP talk. (Falconer)
- 1386 USSR Kaliningrad 1/12 0205 news in EE // 7115, 1/16 0059 Mayak theme, "Moscow Nights" bells, "Radio Moscow World Service" in EE // 7115. Fair.



REJECTS PICKING SINGLE STANDARD

Commerce Department Backs Multi-System AM Stereo Solution

The U.S. Commerce Department announced in Washington this week (2/10) that it favors breaking the five-year AM stereo impasse between Kahn and Motorola by encouraging multi-system receivers capable of picking up transmissions from both systems.

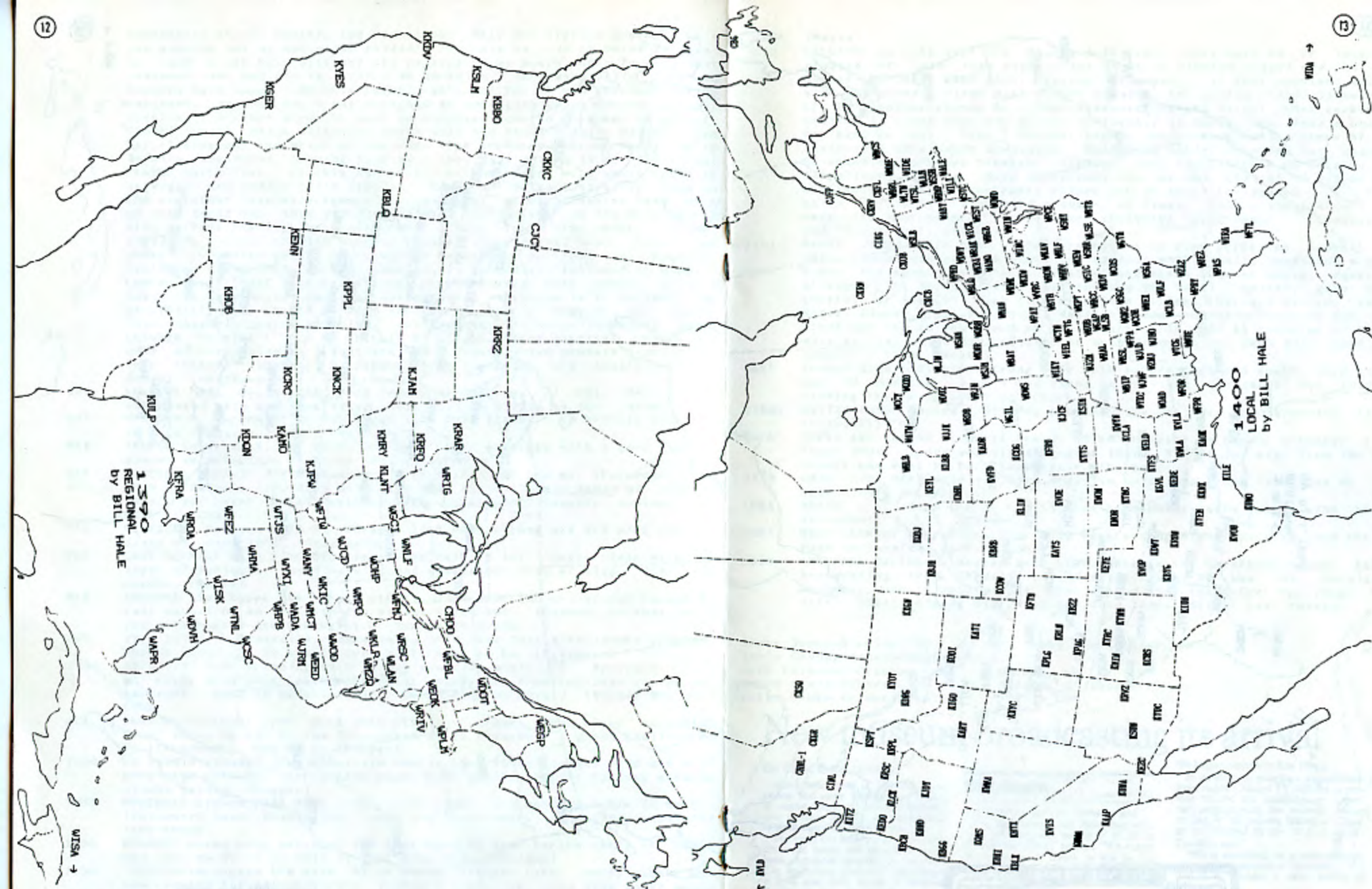
Despite hints that it might call on the FCC to pick a single standard, the National Telecommunications & Information Administration (NTIA) said such a step would hurt stations which have already brought the "losing" system and drag out the process even further by inviting a lawsuit.

Motorola and NAB officials attending a press conference to unveil NTIA's report declined comment until they'd had a chance to study the proposals.

Multi-System Chip Study Soon

NTIA Administrator and Assistant Commerce Secretary Al Sikas, a former Missouri radio broadcaster, said his agency will quickly conduct a study on the feasibility of multi-system receiver chips at its laboratory in Colorado. "Advances in integrated circuit 'chip' technology may offer a hardware solu-





son to this apparently stalemated competition," said Sikes.

NTIA's report added, "Available evidence suggests that multi-system receivers are both technically and economically viable." But it concluded that a study is needed to settle claims that multi-system chips hurt reception.

If multi-system chips prove to be viable, Sikes said NTIA would immediately petition the FCC to protect the stereo pilot tones used by Kahn and Motorola to "protect the viability of the two market-accepted systems and promote

greater certainty in the AM stereo market."

If the chips are proven once and for all to be unworkable, NTIA predicted the marketplace will "coalesce rapidly around one of the two systems."

Nearly 1000 AM Stations Surveyed

NTIA made its findings after conducting an extensive AM stereo study, covering 931 AM stations and 26 receiver manufacturers. It found that no more

than 518, or slightly over 10% of AM stations, are now stereo, and the rate of new conversions is slowing down.

Most commonly cited as reasons for failing to convert were lack of receivers, mentioned by 46.7%, and fear of choosing the wrong system, 41.6%.

On the receiver side, NTIA found that no more than 40 set makers, or one-sixth, make AM stereo sets. It said about 30 make C-QUAM sets, while six appear to make multi-system products.

Only 2% Of AM Sets Get Stereo

Accepting Motorola claims of seven to eight million C-QUAM sets in the marketplace, NTIA noted that represents only two percent of the 500 million radios in existence. Manufacturers cited lack of consumer demand and lack of AM stereo stations as the main reasons for not building stereo sets.

NTIA reasons that a multi-system approach would allow fans on both sides of the equation: AM stations wouldn't fear picking the "wrong" system, while

set makers would be more comfortable knowing their receivers could pick up either Kahn or C-QUAM transmissions.

Other steps Sikes said NTIA will take to help promote AM stereo include:

- Initiating talks with other countries "active in AM improvement," such as Japan, Australia, Canada, and Brazil.

- Petitioning the FCC to open an inquiry on how the expanded AM band, from 1605 to 1705 kHz, can be used to solve some of AM's problems. Sikes said it's "conceivable" NTIA will recommend moving existing stations to the

new spectrum to lessen crowding in the present band.

- Sending letters to broadcasters and set makers, urging their cooperation to improve AM.

- Recommending that government and industry work together "toward recognition that AM should be allowed to improve and develop into a medium similar to FM, that is, with less interference and better sound and signal quality."

Making AM "High-Tech"

"We believe the industry needs to have a commitment to seeing AM as a high-tech medium," Sikes summed up at this week's press conference. "The essence of our view is that it's hard to compete in a high-tech world if you're relegated to a low-tech technology."



- (Weeks)
- 1512 BELGIUM in with xint sig Sunday 1/25 2200. they have an EE language program at this time nightly for about 15 minutes-logged due to the demise of local WMRE-1510. Boston. (Cooper) 1/15 2057 popular melody with pan pipes. Clear with no QRM or slop, but narrow filter is necessary to suppress strong het. Some fluctuations and slight fades seemingly related to other stations barely noticeable in background. Female annct but hard to copy. Pips. Further female annct. Electronic chimes of the style that introduces newscasts. Male talk not FF-sounding but vaguely GG-sounding--perhaps Flemish. //9905. thus identifiable as Belgian international service. More background station QRM. 2127:45 ID signal not mentioned in WRTH--electronic chimes (so so so/so tee doh/so /me fah-me-re-fah/ soh). rpeated a number of times. 2130 a short melody on harp-like instrument. Female annct including "programma", "frecuencia" and "kiloherzo". (Weeks)
 - 1521 SAUDI ARAHIA 2/4 2235 (IDX'D'ers take note-even Jerry an convert to GMT...Chuck) making tremendous het against WWKB, easily separated w/good audio for several minutes, chanting and snake charmer music, equal in strength to Buffalo (take that any way you want), quickly gone 2242 (Buffalo or signal? Hope it was Buffalo...Take that any way you want. Starr..Chuck). It was still daylight here! Country #59 here and the first new one in ten years or so. (Starr) 1/15 2250 AA chanting // 7210. male soloist. 2300-2303 silence on both frequencies. 2303 male annct. no longer // 7210. (Weeks)
 - 1557 FRANCE Nice 1/31 0705 strong w/FF talk between man and woman. Good high end TA opening. wish I had tuned in earlier. (Falconer) Had trouble finding the ON switch?? H1, Chuck
 - 1566t SWITZERLAND Sarnen 1/31 0705 probably the one here w/GG sounding talk. (Falconer)
 - 1570 TURKS AND CAICOS Atlantic Beacon noted on later on Sunday mornings till about 0700. black religious program then. V/q is in, sent from T&C but report was sent to Fort Lauderdale. (Cooper)
 - 1575 UNID 1/31 0659 weak one here w/man in unid lang. had time pips on the hour. Italy?? (Falconer)
 - 1584 SPAIN 1/31 0655 one of the SS stns here doing quite well w/SS talk. (Falconer)
 - 1593 WEST GERMANY Langenberg 1/31 0650 very strong signal putting loud het on WAKR w/classical mx. (Falconer)
 - 1610 ANGUILLA Caribbean Beacon 1/20 0306 "This is the Caribbean Beacon Radio broadcasting from Anguilla". address given as PO box 337. Caroline. Alabama..code is 36571. USA. Mention to stay tuned for "Spiritual Up-lift". Choir. Signal fair with periodic fades. Slight het. (Weeks)

Steve Bohac-B'ville, NJ R7, loop. Scanalyzer, etc.
 Ernie Cooper-Provincetown, MA ??????
 Jeff Falconer-Clinton, ON NRD525, 90' LW
 Jerry Starr-Hubbard, OH HQ180A, 3' loop
 Peter Weeks-Fredericton, NB ???????

New museum broadcasting its arrival

By David Ibeta-CHICAGO

After three years of planning, fundraising and some friendly arm twisting to secure corporate sponsors, construction is about to begin on the Museum of Broadcast Communications.

The city's first museum devoted to the electronic media will occupy a prominent, first-floor location in the River City apartment, retail and office project at Polk and Wells Streets in Burnham Park on the Near South Side.

The museum will house exhibits, an auditorium, a research center and working radio and television studios. Its \$300,000 first phase will open—cross your fingers—in May.

"This will be an exciting place for those interested in the history of broadcasting and advertising, especially in the Midwest," said Bruce DuMont, president of the organization and a political correspondent for WTTW-TV (Channel 11), Chicago.

"Entertainment, documentaries, news specials and a heavy emphasis on children's programming and commercial television form the foundation on which

Spotlight *From Onysnick Chicago Tribune 1-25-87*

our collection is built," DuMont said.

"At the moment, our library has more than 200 programs, usually of 30, 60 or 90 minutes apiece," he said. "We expect the collection to double in size by the time we open. Our projected growth rate is approximately 2,000 additions to our library per year."

The longer programs, DuMont said, include Soundstage, Lyric Opera and Hubbard Street Theater performances donated by Channel 11.

"We also have a tape of the [1960] Kennedy-Nixon debate from [WBBM-TV] Channel 2. The late Burr Tillstrom contributed the 50 best hours of 'Kukla, Fran and Ollie,' while Kraft donated the 50 greatest hours of its television theater and music hall programs.

"Sports also will be an important element of what we'll preserve," DuMont said. For example, the museum has a tape of the Cubs' 1984 division clincher, "as well as the ball going between Leon Durham's legs" in the final game of the

'84 league playoffs in San Diego.

In addition to securing a commitment from major Chicago TV stations to provide historic and contemporary American programming, the museum started on Jan. 4 "an ongoing history of Chicago as depicted by the 10 p.m. news," DuMont said.

"We're recording, on a rotating basis, the nightly newscasts of Channels 2, 5, 7 and 9 to establish a video history of Chicago."

DuMont comes from a legendary broadcast family. His uncle, Allen B. DuMont, was the founder and president of the DuMont Television Network. The network aired from 1947 to 1956, and WGN-TV (Channel 9) was its Chicago affiliate.

The Museum of Broadcast Communications has raised \$1 million, DuMont said. Charles Feldstein Co., Chicago, is the group's fundraising counsel.

Chartered as a nonprofit institution in October, 1983, the museum occupies a 650-square-foot temporary office in River City.

Freq.	Calls	Location	Power
550	KENI	Anchorage	5000
560	KVOK	Kodiak	1000
580	KRSA	Petersburg	5000
590	KHAR	Anchorage	5000 C-Quam Stereo
620	KPEN	Homer	5000
630	KIAM	Nenana-Fairbanks	5000 Prev. on 1270 thru 11-86
630	KJNO	Juneau	5000/1000
640	KYUK	Bethel	10000 Prev. on 580 thru 5-86
650	KYAK	Anchorage	50000
660	KIAK	Fairbanks	10000
670	KDLG	Dillingham	5000
680	KBRW	Barrow	10000
700	KBYR	Anchorage	1000
720	KOTZ	Kotzebue	5000
750	KFQD	Anchorage	50000 Kahn Stereo
770	KCHU	Valdez	1000/500
780	KNOM	Nome	10000
790	KCAM	Glenallen	5000
800	KINY	Juneau	5000
820	KCBF	Fairbanks	50000 Kahn Stereo
830	KABN	Long Island-Big Lake	10000
840	KSDP	Sand Point	250 Repeats KDLG-670
850	KICY	Nome	10000
870	KSKO	McGrath	5000
890	KBBI	Homer	10000 Prev. on 1250 thru 12-86
910	KIYU	Galena	5000 Repeats KSKA-FM PM, Eves.
920	KSRM	Soldotna	5000
950	KRXA	Seward	1000
950	KAJD	Juneau (CP)	5000/500 Not yet on as of 2-1-87
970	KIAK	Fairbanks	5000
980	KKEN	Kenai	1000
1020	KCFA	Eagle River	10000 New, on air 12-25-86
1080	KASH	Anchorage	5000 (CP for 10000)
1140	KCSY	Soldotna	10000
1170	KJNP	North Pole	50000 Dir. to NW Nights
1230	KIFW	Sitka	1000
1230	KVAK	Valdez	1000
1300	KRKO	Fairbanks	1000
1360	KOBG	Wasilla (CP)	5000 Not yet on as of 2-1-87
1450	KLAM	Cordova	250
1450	KIAL	Unalaska-Dutch Harbor	50 Repeats KDLG-670

Above information is accurate as of February 1st, 1987.

To the best of my knowledge and observations KJNP is the only directional station broadcasting in Alaska.

Rod O'Connor, CG Box 1467, Kodiak AK 99619

From P. 15

It borrowed some vacant commercial space on the first floor of the development in October for a gala fundraiser, an event whose guest list set twitter every gossip columnist in town. The next month, the museum signed a lease for that 14,025-square-foot space.

It may not be a big institution yet, but it has some first-class ambitions.

Plans for the first phase drawn gratis by Ray Bayley, vice president of the

Chicago space planning firm of Hague-Richards Associates Ltd., call for a 99-seat Kraft Television Theater—named in perpetuity for the museum's largest corporate sponsor, Kraft Inc., which donated \$400,000.

[The second-largest corporate donor was the MacArthur Foundation, which awarded a \$200,000 grant to be distributed over four years.

[Other patrons include the Frost Foundation of Denver, Chicago Community Trust and Quaker Oats

Co.; in-kind contributors include Eastman Kodak Co., donating videotape and other archival material, and Zenith Electronics Corp., providing consumer electronics equipment.]

There also will be an A.C. Nielsen Research Center, named for the museum's chairman, Arthur C. Nielsen, media pollster, founder of A.C. Nielsen Co. and a personal contributor of more than \$100,000.

DuMont called it "a place where museum members will be able to select a specific tape" and play it "in individual study suites, each equipped with a TV monitor, videocassette player, audio receiver, audio tape player and a headset."

Adjacent to the study area will be a library containing historic audio and video tapes.

To satisfy fans of old-time radio, WGN-AM in January donated and shipped the Pierre Andres studio

from its former quarters at 2501 W Bradley Pl., Chicago. The radio station left the studio last year, when it moved Downtown to Tribune Tower.

Not only is the Andres studio a valued historical curio, it also will be operational, DuMont said. Chuck Schaden will broadcast his "Those Were the Days" radio nostalgia shows from the studio on WNIB-FM Saturday afternoons. The rest of the week, the facility will be available for remote broadcasts by other radio stations.

So much for the museum's first phase. If financing is in hand, a second phase would open a year after the first. It would feature a working television studio and four "Decade Rooms."

Each decade room would duplicate a living room or family parlor of the 1940s, '50s, '60s and '70s with a radio set or TV pre-pro-

grammed with vintage entertainment.

DuMont said the museum chose the South Loop for its home because Daniel N. Epstein, general partner of River City, "approached us and made us an offer we felt was most generous—a chance to take prime, high-visibility, commercial space . . . in what we consider to be one of Chicago's most exciting emerging neighborhoods."

What's more, DuMont said, proximity to major expressways "gives us the best expressway access of any cultural institution in the city."

River City occupies 20 acres of former Chessie System railyards bounded by Harrison and Wells Street, Roosevelt Road and the South Branch of the Chicago River. Its 17-story, \$60 million first phase contains 240,000 square feet of offices and retailing, 446 rental apart-

ments and a 62-slip marina.

The broadcast museum solves something of an identity crisis for River City, said Sam Delisi, commercial leasing agent at the project for U.S. Equities Realty Inc.

"Residents walking into the building didn't really want to see offices at their front door, while commercial users didn't want the building to appear too residential," Delisi said.

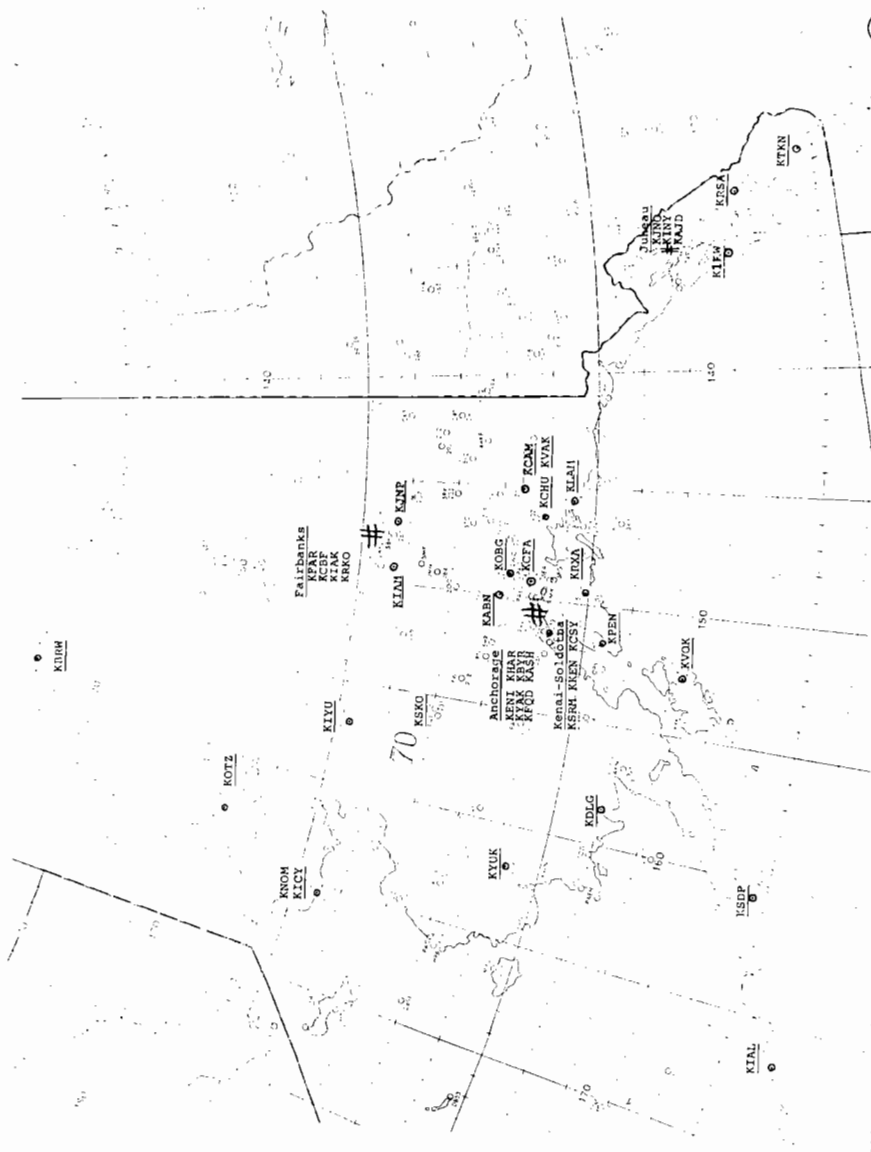
The museum, he said, is a good compromise, adding a touch of class to the property as well as giving a boost to its commercial leasing efforts, now at 50 percent.

"We're now seeing media-related people, such as radio syndication companies, media buyers and small advertising agencies that specialize in broadcasting, interested in taking space here," Delisi said.

These are in addition to medical professionals drawn to the area because of its proximity to the University of Illinois and the West Side medical district and commodities traders and securities brokers spilling over from the nearby financial district, Delisi said.



3020 Summit Signal Hill Kansas City, Missouri 64108



BANDSCAN

John R. Malicky, 995 Shadycrest Rd., Pittsburgh, PA 15216

Yes, we're back again! Sorry for the delay. First off, I wish to thank Frank Merrill and Mark Connelly for their scans of Fairbanks-Nenana, Alaska and El Paso, Texas respectively. Frank's Alaskan scan appeared in Issue 6 and his address is P.O. Box 669, Macomb, IL 61455, as it was omitted. Mark's scan appeared in Issues 30 and 10. Both were typed at H.. Good job gentlemen!....Now the scanning dial returns and goes outside the U.S. to Canada and the Dominican Republic, courtesy of Morris Sorensen and Richard K. Clark, thank you gentlemen! Morris's scan was taken on an Ontario DXpedition to Gravenhurst, Ontario, about 100 miles north of Toronto. Morris adds he could have picked up more stations with better equipment and more time. He used this signal code: 5-excellent or local, 4-very good, 3-good, 2-fair, 1-poor, & 0-very poor. Richard's scan is of conditions in the winter and summer. PLEASE REMEMBER, list frequency, updated calls(if known), city, state-province, EQUIPMENT, your LOCALS IN CAPS, and if you wish, date and totals. Now let's go north to Canada.....

FREQ GRAVENHURST, ONTARIO, CANADA DAY
 Morris Sorensen, receiver: Realistic DX-302, 250 foot longwire running north/south, 1100-1700 EI
 on November 15, 1986, 67 total (blank frequencies omitted, all in Ontario unless indicated)

530	CJFT-Fort Erie 3	1110	CKJD-Sarnia 2
540	CBEF-Windsor 2	1130	WCXI-Detroit, MI 2
550	WGR-Buffalo, NY 3	1150	CKOC-Hamilton 3
560	CFOS-Owen Sound 4	1180	WHAM-Rochester, NY 3
570	CHYM-Kitchener 4	1190	CJMR-Mississauga 3
580	(either CFRA-Ottawa or CKWW-Windsor 0)	1200	CFGO-Ottawa 2
590	CKEY-TORONTO 5	1210	WKNX-Frankenmuth, MI 1
610	CKTB-St. Catharines 4	1220	CHSO-St. Catharines 3
620	WHEN-Syracuse, NY 1	1230	CKMF-Midland 4
630	CFBA-Huntsville 3	1240	CJCS-Stratford 1 (& UNID, possibly Michigan)
680	CFTR-TORONTO 5	1250	CHWO-Oakville 3
710	CJRN-Niagara Falls 3	1270	WHLN-Niagara Falls, NY 3
740	CSL-Toronto 4	1280	WFXY-Rochester, NY 3
760	WJR-Detroit, MI 3	1300	WXRL-Lancaster, NY 3
790	CKWW-Brampton 3	1320	CFGM-RICHMOND HILL 5 (now listed on 640)
800	CJ8Q-Belleville 2/ CKLW-Windsor 2	1340	CFBQ-Ferry Sound 3 (silent)
820	CHAX-Hamilton 4	1350	CKAR-Oshawa 3
840	CHUR-North Bay 3	1380	CKFO-Brantford 2
860	CJBC-TORONTO 5	1390	CHOC-Ajax 3
900	CHML-Hamilton 2	1400	CKCB-Collingwood 4
910	CKLY-SAULT STE. MARIE 5	1410	WDOE-Dunkirk, NY 1
920	CKNX-Wingham 2	1420	CAFT-Feterborough 4
930	WBEN-Buffalo, NY 3	1430	CJCL-TORONTO 5
940	CBM-Montreal, PQ 1	1450	CHUC-Fort Hope 2
950	CKBB-BARRIE 5	1460	CJOY-Guelph 3
960	CKWS-Kingston 2	1470	CHOW-Welland 2
970	WEBR-Buffalo, NY 1	1480	CKAN-NEWMARLET 5
980	CHEK-Feterborough 3	1490	CFPS-Fort Elgin 3
1010	CFRB-Toronto 3	1510	CAOT-Tillsonburg 1
1050	CHUM-Toronto 4	1520	WNKB-Buffalo, NY 3
1070	CHOK-Sarnia 2	1540	CHIN-Toronto 4
1080	WUFO-Amherst, NY 2	1570	CFOR-ORILLIA 5
1090	CAAW-Kitchener 3	1600	CHNR-Simcoe 1

FREQ LA VEGA, DOMINICAN REPUBLIC DAY

Richard K. Clark, receiver: RX Drake A7, Panasonic RF 2200, ARD 505; antennas: 4 foot loop, Radio West amp, many long wires 50 feet or more; 178 total (all in DR unless indicated & kW power)

540	HICW R. ABC-Santo Domingo 5/ YVOW R. Perijá-Villa del Rosario, Venezuela(VZ) 100/ WGT0-Cypress Gardens, Florida(FL) 50
550	WFAB R. 5-50-Fonce, Puerto Rico(FR) 5 555 ZIZ-Basseterre, St. Kitts(SK) 20
560	HIAA (slogan)R. Ritmos-Santiago 5/ WQAM-Miami, FL 5(the strongest stn from USA!)/ #JFF R. 5-60-Maico, Columbia 25(the only Columbian in the daytime!)
570	HIMS R. Cristal-Santo Domingo 5
580	WKAQ R. Reloj-San Juan, FR 10
590	HIDV R. Santa Maria-Carrera de Falmas 10(the most strongest stn at Richard's location)
600	HI.. R. Studio-Santo Domingo / WAEL R. WAEL-Mayagüez, FR 1
610	H1JR R. Acción-Santiago 5/ WIOD-Miami, FL 10/ VFL6 NBS-Fort of Spain, Trinidad(TI) 30
620	HISD RTVD-Santo Domingo 10
630	HIAF R. Monte Cristi-Monte Cristi 1/ WQBS Salsa 63-San Juan, FR 5/ R. Rebelde-Cuba 640?
640	YVQO Ondas Fortenas-Fuerto la Cruz, VZ 50
650	H1AT R. Universal-Santo Domingo 10
660	H1AM R. Quisqueyana-Santiago 2/ 4VI R. Lumiere-Fort au Prince, Haiti(H) 5
670	YVLL R. Rumbos-Caracas, VZ 100
680	HIJX R. Samba-Santiago Rodriguez 3/ WAPA WAPA-San Juan, FR 10
690	H1AW R. Guarachita-Santo Domingo 10/ Caribbean Beacon-Anguilla 15
700	HIDC R. Mao-Mao 1/ YVMH R. Popular-Maracaibo, VZ 10

FREQ LA VEGA, DOMINICAN REPUBLIC continued (taken between 10 AM-2 PM)

710	WAWB WAWB-Mayagüez 10/ WAQI-Miami, FL 50
720	H1AQ R. Norte-Santiago 5/ 4VIA R. Lumiere-Artibonite, Haiti
730	H1Z Broadcasting National-Santo Domingo 10
740	W1AC W1AC-San Juan, PR 10/ YVNC R. Maracaibo-Maracaibo, VZ 10 100
750	HIDB R. Alegre-Santiago 5/ JBC R. One-Fort Maria, Jamaica 5/ YVZS R. Caracas-Caracas VZ
760	H100 R. Santo Domingo-Santo Domingo 5/ WORA Salsa 63-Mayagüez, FR 5
770	H1MD R. Aguila-Tamboril-Santiago 0.5 (not heard for some time)
780	H1BO R. Constanza-Constanza 0.5/ ZBVI ZBVI- Roadtown, British Virgin Islands(BVI) 10
790	HIL La Voz del Trópico-Santo Domingo 5/ WNW5-South Miami, FL 25
800	YVFB R. Exitos de Maracaibo-Maracaibo, VZ 100(FJB is off in the daytime from 9am-4pm)
810	WVVM KVM-San Juan, FR 25
820	H1AZ R. Santiago-Santiago 5
830	HIJB HIJB-Santo Domingo 10/ YVLT R. Sensación-S. Antonio de los Altos, VZ 50
840	H1AB R. Isabel de Torres-Fuerto Flata 1/ 4VEO(or 4VEF?) R. 4VEH-Cap Haitien, Haiti 10
850	WABA WABA-Aguadilla, FR 5/ H1LR R. Clarin-Santiago(now inactive)
860	H1LR R. Clarin-Santo Domingo 50
870	H1VG R. La Vega-La Vega 5(never take their transmitter off even though they s/off lllpm)/ WVOZ R. Voz-San Juan, FR 5
880	H1OR R. Santa Cruz-Mao 1
900	H1BN R. Fuerto Flata-Fuerto Flata 5 890 HIJY R. Continental-Santo Domingo 5
920	H1BA R. Diamante-Santo Domingo 5/ 4VCB R. Cap Haitien-Cap Haitien(no listing in '86 ARRL)
930	H1CK Ondas del Yaque-Santiago 10/ WEKO R. Eco-Cabo Rojo, FR 2.5/ YV1J R. Maracay-Maracay, VZ 10
940	W1FR- San Juan, FR 10/ WINZ-Miami, FL 50/ YVNW R. Punto Fijo-Funto Fijo, VZ 10
950	H1G R. Popular-Santo Domingo 10
960	H1F La Voz del Atlántico-Fuerto Flata 5/ FJA6 R. Victoria-Victoria, N.A. 10
970	W8TX Christianated, American Virgin Islands(AVI)5
971	H1VF(or H1FV?) R. Varidades-Villa Tapia 3 980 H1FA La Voz de las Fuerzas Armadas-Santo L 5
990	H1SA R. Cibao-Santiago 5/ WFAA R. Mil-Mayagüez, FR 1
1000	H1HG R. Beler-Dajabón 1/ WVWI-Charlotte Amalie, AVI 5
1010	H1JP R. Comercial-Santo Domingo 10 1020
1030	H1DL R. Novedades-Rio Verde-La Vega 10/ WOSO-San Juan, FR 10
1040	H1ON R. Central-Santo Domingo 10 1050 H1CB R. Hispanola-Santiago 10 1060
1070	H1BI H1BI Radio-San Francisco 10 1080 H1MC RFQ-Santo Domingo 0.5
1090	H1JM R. Amistad-Santiago 3 1100 H1FS R. Nagua-Nagua 1/ ZDX-St. Johns, Antigua 10
1110	H1TO(or H1J?) R. Jarabacoa-Jarabacoa 1
1120	H1ON R. Antillas-Santo Domingo 5/ WMSW Salsa 63-Hatillo, FR 5
1130	H1RL R. Exitos-Santiago 10/ YVRL R. Ideal-Caraballeda, VZ 20
1140	H1RA R. Anacaona-San Juan 5/ WQII 11-Q-San Juan, FR 10
1150	H1AS Ondas Musical-Santo Domingo 5/ YVMX Mundial Caribe-Funto Fijo, VZ 20
1160	H1BG Radiolandia-Santiago 5/ WBQN R. Borinquen-Barceloneta, FR 1
1170	4VRS R. Soleil-Fort au Prince, Haiti 10 1180 H1BE R. Mil-Santo Domingo 10
1190	H1AG R. Azul-Santiago 5/ WBMW R. Rock-San Juan, FR 10
1200	H1BS R. Dial-San Pedro 1 1210 H1CJ R. Merengue-San Francisco 5
1220	H1N R. HIN-Santo Domingo 10
1230	H1MB R. Ideal-Moca 1/ WNIK R. Unica-Arecibo, FR 1/ 4VAV R. Creole-Cap Haitien, Haiti 1
1240	H1AU La Voz de la Libertad-Fuerto Flata 3/ 4VJH R. Antillas Internacional-Fort au Prince
1250	H1BC R. Funto-San Francisco 5/ H1RJ R. Juventud-La Romana 1(ex 1570)
1260	H1T R. Vision-Santo Domingo 1 1270 H1SD RTVD-Santiago 1
1280	H1VM R. Bona0-Bona0/H1HZ R. Monte Flata-Monte Flata 0.5 (ex 1320)/ WQMN Centro-Arecibo, FR 5/ 4VAM R. Metropole-Fort au Prince, Haiti 10
1290	H1GA R. Guarocuya-Barahona 5/ H1VD R. Janico-Janico 0.5 (inactive or moved to another tower)
1300	H1IA R. Radio-Santo Domingo 1/ W1IL R. Util-Mayagüez, FR 1
1310	H1MH R. Real-La Vega 0.5/ H1SD RTVD-El Seibo 1 1315 H1AV R. Bani-Bani 1
1320	WUNO R. Uno-San Juan, FR 5 1330 H1FA La Voz de las Fuerzas Armadas-Moca 10
1340	WUNA R. Una-Aguadilla, FR 1/ UNID Cuban
1350	H1XZ R. Listin-Santo Domingo 1(inactive, maybe gone forever/WEGA R. Las Vegas-Vera Cruz, FR
1360	H1SD RTVD-La Vega 1(the only station with a long wire antenna!)
1370	4VEE R. Citadella-Cap Haitien,H 10/H1FA La Voz de Las Fuerzas Armadas-Elias Pign 5/ W1VV W1VV-Vieques Island, FR 5 1380 H1SC R. National-Santiago 5/H1RF R. Seibo-Seibo
1390	H1SA R. Isabela-Isabela 1 1394 H1AC R. San Cristóbal-San Cristóbal
1400	H1AL Ondas de Valle-La Vega 0.25/ H1SD RTVD-San Juan 1
1410	ET.. R. Gri Gri-Río San Juan 1/ H1AE La Gran Musical-Santo Domingo 1
1420	H1ED R. Oro-Cotui 0.5 1430 WNEL R. Tiempo-Cafuas, FR 5
1440	H1FS R. Bahía-Nagua 1/ H1AK R. Renuevo-Santo Domingo 5/ H1AD R. San Juan-San Juan
1450	H1AC R. Util-Salcedo 5 1460 H1AN H1AN-Hato Mayor 1/ W1RF W1RF-San Sebastian, FR 0.5/ R. Turks & Caicos-Grand Turk, Turks & Caicos(TC) 3.5
1470	H1DE R. San Francisco-San Francisco(no listing in W1RF/ YVJW R. Latina-Valencia, VZ 10)
1480	H1AH R. 1480-Santo Domingo 1/ WMDL WMDL-Fajardo, FR 5 1490 H1SD RTVD-Fuerto Flata 1
1500	H1AF R. Ronda-Moca 5(still IDas 1490) H1FA R. Color-Higüey 0.25/WNT R. Manabí-Manabí, VZ 1
1510	H1BL R. Fueblo-Santo Domingo 10 1520 ... 1530 H1JR-Santiago(transmitter off)
1540	H1FB R. El Mundo-Santo Domingo 1/ H1BD La Voz de la Romana-La Romana 0.5/ ZNS-1-Nagua, Colombia 10
1590	H1TS R. Enriquillo-Tamayo 10 1555 H1CZ R. Cayman-Georgetown, Cayman Islands 10
1600	H1JC(or H1JZ?) R. Maiba-Santiago 5/ W1RJ R. San Juan-San Juan, FR 5
1610	H1AJ R. Amanecer-Santo Domingo 1/(T&C) 50150 H1WJ R. Bonana-Santo Domingo (inactive)
1620	H1LA R. Hit Musical-Santiago 5 1600 H1FS R. Revolucion de America-Santo Domingo
1600	H1JZ R. Luz-Bayamon, FR 5 1610 Caribbean Beacon-Anguilla 15 (not in '86)

MUSINGS

Paul Swearingen

P.O. Box 4812, Panorama City, CA 91412

The opinions expressed in this column are those of the individual writer and do not necessarily reflect those of the Editors, Publishers, or the National Radio Club, Inc., or its subsidiaries.
Times are local per Muse.

~~~~~  
We're back again, this time with contributions from some folks rejoining us after inactive time. Thanks for the theme ideas and keep 'em coming ... we'll start up the themes again in the near future. Meanwhile, let's get on with it!

**Dick Truax** - 3003 Gleeson Ln. - Louisville, KY 40299

Greetings once again from the Bluegrass State. Not knowing what theme will be in effect when this sees print, we'll just let it be a random Muse. (Sounds right to me, hi! -pls) Firstly, a few new loggings have slipped into the log. 10-20: WAGE-1200 VA with 1D and c&w mx at 6:25 pm all alone, noted many evenings since. 12-24: WDCB-1200 KY with 1D and ads at 4:20 pm finally, been looking for this one for awhile. Then WBZE-1030 MD like a local with 1D and many Black gospel ads at 4:35 pm. They overpower WBZ almost every evening here until they sign off. 2-2: WMYX-720 GA with 1D and classic hits from the '50's and '60's (my kind of mx) at 5:10 pm even with WGN, noted most mornings on the way to work also. Update on the local scene for those wanting to add another station or two to their logs: former daytimer WINT-620 is now on until 8 pm evenings, but not any later so far. And the newly opened Mexican clears have allowed two more former daytimers to go fulltime. WFIA-900 is now on 24 hrs with religious format and WOBS-1570 in neighboring New Albany, IN is on evenings until 11 pm, also with gospel format. No sign of the authorized new stations here on 680 and 1030 as of 2-4.

It seems that the latest rage is the various gospel stations springing up everywhere. I have nothing against gospel, alleluia, but with gospel on 900, 1240, and 1570, Louisville has gotten to be one of the holiest places to listen to the radio. And so many formats: contemporary gospel, country gospel, southern gospel. Amen!! One last unld was heard 2-4 on 1134 at 8 pm. Strange music a la polka type and three tone bips on the hour. Naturally I didn't have the taper running, and it faded down by 9 pm. But a really potent signal cut through WRVA slop. Maybe Yugoslavia? Next time I'll tape and ID it surely. Oh, yes, I stand corrected in listing the new station in Nicholasville, KY on 770 as WKYJ in last Musing. It should be WJMM - and thanks to Bill Prater in Lexington for setting me straight. More as it happens.

## \*News and Views\*

**John R. Malicky** - 995 Shadycrest Road - Pittsburgh, PA 15216-3023

Hello again. First off, I really enjoyed John J. Rieger's "AM-azing Wisconsin" in Issue 17 as I even pulled out the map to follow along! I was even fooled that John did his traveling at home! His article contained some good commentary, much more than my trip into Pennsylvania ... I also agree with the comments made by Jerry Starr in Musings, Issue 15, because I always liked to add a little "flavor" to anything I wrote and never saw anything written by anyone else as a "brag list". I think we should all try to encourage positive efforts when new members join or send something into DDXD, Greg Coniglio, etc ... A "tip of the hat" and great catch to Andy Rugg for his December 6 logging of semi-local WBCW-1530 Jeannette who air a tele-talk show to 3 pm, then AC with polkas on Saturday as WCKY usually begins to fade in around 2 hours before SSS and almost always covers WBCW by s/off.

There have been some comments about the new Log Book, and I'll just say that I had to, but did get used to the smaller print and even though some members have a hard time reading it, at least there is more space for adding corrections. I went through all the DDXN's back to Issue 1 and now upgrade my log weekly with changes listed in AM Switch, Formats, Verie Signers, DDXD, and whatever else, because I can't wait for an Updater as I need the information for Bandscan and the rest for myself. I always did like the cover full of logos and now even the book can be flipped through more easily as the frequencies are listed at the top of ALL the pages. However, I can't understand how we messed up on some of the address changes from last year.

I listened to TalkRadio's DX Special for about 3 hours before finally nodding off. That is the first time I didn't hear the whole show, but I did get to hear Laurie Boyer who was on just before 6 am EST ... Also on the subject of talk shows, did anyone hear Larry King's show on December 12 with the FCC's James McKinney? The show basically covered most information that we have in DDXN (stop issuing licenses to daytime stations, and that all or most of them will be fulltime in the 1990's, AM band to open/expand to 1700 kHz by 1991, decision on AM stereo system in the next few months.) Plus, his views included the biggest change in AM is satellite use, and that AM radio is going to prosper and will improve in the future, though I read in the local paper that AM listening is at its worst, 27% vs. 73% for FM for the general population. He also talked about the issue of racism on the air (i. e.,

Howard Stern), mentioning obscenity and indecency are not protected by the Amendments, but racism is ... It'll be interesting to see if this area is to get WGLP-890 in Bethel Park (an affluent suburb 7 miles south) as it's the first time since I can remember when we got a new station ... Thought I had the KRMX test as tones actually came through and 2 other members said they heard tones, but a letter this week from CE Ace Ball says he wasn't sure if I heard 'em as he did just ID's and Mexican music, so who was the TT'er? It would have been nice if WLW was off as they were the night before ... Iately, I've been logging a post-sunsetter as they go off 2 hours past normal s/off, WPDG-1600 Elizabethtown, PA as the signal comes in strong, then under WURL, with ABC nx and "40 years of favorites and the most contest fun!" ... Finally, a few months ago I met an ex-DJ who got tired of radio from KTXI-FM Lubbock, TX and now worked at the airport. I think he had FM Jockitis-burnout, hi! 73's.

**Morris Sorensen** - 111 Town Line - Milton, ON L9T 2X1

Recently an item appeared in NRC about a grant to CFGM to move from 1320 to 640 kHz. This may not happen for some time. Apparently CFGM purchased land in the town of Lincoln down in the Niagara Region for their new transmitter site but neglected to tell anyone there about it. They did publish a letter of intent in a local paper, the **Richmond Hill Liberal**, but this paper is not distributed in Lincoln. When people in Lincoln finally did find out, many of them became concerned about the possible environmental impact of a high-powered transmitter in their midst and the mayor of Lincoln made such a full that hearings into the matter have been re-opened.

In other news, Toronto has a new FM station, CIUT-FM 89.5 licensed to the University of Toronto. They carry a lot of university sports and have a good signal here in Milton.

I'm wondering if CKGM-980 has changed their antenna pattern. They used to be quite rare here but lately they have become semi-regular at sunset, mixing with CFPL.

Just before Christmas I sold my Racal RA-17 receiver. Since I got my Hammarlund HQ-150 back from my father back in October, I found myself using the Racal less and less. The Racal was a good receiver, probably the best I've ever used on shortwave, but the Hammarlund had the edge on mediumwave. Having two "boat anchors" in my apartment was just a little too much.

Over the Christmas holidays I visited my parents in Kemptville, ON, near Ottawa. My father, who has DX'ed off and on since the 1930's is really getting back into the hobby. He has quite a shack with an old (WWII era) military version of the National HRO, a Hallicrafters S-40A and a Realistic DX-150A along with all kinds of scopes and test gear. We had fun DX'ing together. Surprisingly at the time when I was really into DX'ing as a teenager he had little interest in the hobby.

A number of important radio-related events will take place in Canada this year. The Ontario DX Association (ODXA) is hosting ANARCON '87 in Toronto (actually Mississauga) on July 16 - 19 and will hold their own convention in Longford Mills, ON (near Orillia) on Oct. 3 and 4. The Canadian International DX Club (CIDX) is celebrating their 25th anniversary and will mark the occasion with a convention in Edmonton tentatively set for Aug. 28-30 and smaller regional get-togethers across the country.

I guess I've rambled on enough for now. This season has been by far my best since moving to Milton in 1983 and probably my best at any location since at least 1974! 73.

## \*Does the Auroral Zone Work Only Part Time?\*

**Gene Martin** - 3303 East Evans Avenue - Denver, CO 80210

My first incarnation as a DX'er in the broadcast band covered the years, 1925 to 1932, beginning as a teenager and ending before I turned 21. The necessity of making a living in Depression Days took away my interest in radio so far as pursuing elusive stations was concerned.

What this means is that I had given up DX'ing as a hobby before the National Radio Club was born, and therefore I never saw the first issues of the club's publication, **DX News**.

However, I would be willing to make a bet, sight-unseen, as to some of the loggings reported in **DX News** during the early years, say 1933-35.

I would bet those issues contain dozens and scores of reports about Japanese stations being heard all over the Eastern United States. Perhaps the present custodians of those early issues of **DX News**, whoever and wherever they are, could check into this and either confirm frequent Japanese loggings or tell me I am mistaken. I wish they would check it out.

While I have never seen the early issues of **DX News**, I have seen what **Radex** was reporting in 1930, '31, and '32. I have maybe ten copies of **Radex** from that period.

I went through five of them the other day. I found reports about Japanese stations heard or claimed from such places as Philadelphia, East Liverpool, Ohio, Shelby, NC, Harrison, NJ, and Claremont, NH (yes, New Hampshire!)

During these same years from my Dallas location, I was hearing so many Japanese stations in fall and winter that they had become routine. Japan could be heard at 900, 870, 850, 830, 810, 790, 770, 750, 710, and 590. I might be forgetting one or two others, but I'm harking back 57 years.

So I was never surprised in those years when I would read in **Radex** about Japan being heard in the Eastern States, even Atlantic Coastal states.

Now as I understand it, the most knowledgeable guys in today's DX'ing fraternity are more or less in agreement that Japan's BCB stations cannot be heard in the Eastern United States. To explain the non-arrival of Japanese signals, they have invented or discovered the "auroral zone", in the Far North, located in the ionosphere over the Arctic. Today's propagation experts suggest the auroral zone just sits there and maliciously side-tracks and kills off the Japanese signals that otherwise might make it to Jersey City and East Liverpool.

I have doubts about the reality of the auroral zone as a permanent feature in the ionosphere of Far Northern latitudes.

If the auroral zone blocks out Japanese signals en route to the Eastern U. S., how come it failed to do it way back in the early 1930's?

Finally, I believe if James Hall in Pittsburgh found a carrier on 747, 1047 GMT, Oct. 31, as he reported, the chances are at least 10 to 1 that it came from JOIK, Sapporo. JOIK is so overwhelmingly dominant there, and the Down Under stations on 747 so trifling, it almost makes 747 a clear channel. I think it's a 10 to 1 bet that any signal found on 747 back East is from Japan. Hall's 774 carrier found at the same time might have been Australia, but his 747 signal argues for Japan there, too, JOUB. Dr. Wood in Hawaii tells us that Tahiti on 738 runs an open carrier all night, and that would suggest what Hall heard on that frequency rather than Australia.

Quite possibly, Hall is the first Eastern DX'er in many years to tune in a signal from Japan. The A-Index was 3 that morning and had been 10 the day before.

The late winter and spring is not too late to hear JOIK at my location. Its final appearance for me last year was May 6, so Eastern DX'ers might well keep checking 747 at least through March, although October-November is traditionally a better time to hear Japan.

**Richard Eckman** - Dept. of Physical Chemistry - Lensfield Rd - Cambridge CB2 1EP - England

There hasn't been too much time for DX'ing here in Europe. I did manage to hit the dials on several occasions during a brief visit back to the U. S. during the holidays. Conditions were spectacular in late December, but the fact that the entire band was open for TA's reminded me very much of the situation during the last sunspot minimum in 1976-77. While carriers were numerous, audio was often elusive. On the other hand, I have a suspicion that my HQ-180A could certainly use a realignment and tube check. I'll have to attend to that next year when I return to the U. S. permanently. Entirely lacking were some of the interesting openings to Eastern and Northern Europe which I stumbled upon last January. The Yugoslav on 1134 kHz was surprisingly consistent and strong, as noted by other easterners in recent months.

I was happy to see that my tentative reception of Korea on 1566 kHz last fall almost certainly was they. It's been reported on several occasions by British DX'ers in *Contact*, the World DX Club publication. Apparently it's not nearly as rare a catch as I first thought. In any event, it was a thrill to hear my first east Asian from Britain. I've tried for some of the Taiwanese stations that are heard here on occasion but there's been no luck so far.

It was great to see the five-page IDXD in the 1-12 issue. I was getting worried that no one bothered for foreign DX any more. Particularly pleasing were the first-time reporters in that column with their excellent receptions.

That's it for now. Hopefully, there will be more DX in my next Muse. 73.

**Roger Winsor** - 302 W. John - Champaign, IL 61820 (217) 398-6672

DX has had to take the back seat for the last few weeks as I have inherited the entire city of Champaign in my insurance job, so I have been very busy. Yesterday 2-7 I was at a seminar in Bloomington, IL. During lunch break I spun the dial and noted a good level OC on 750 looping NE/SW which would indicate WNDZ IN. No ID hrd, but will keep checking. WQOM-860 IN amazes me with their coverage, easily audible in central IL. Later the same evening strong KGYN-1210 with BKB noted for o/2 hours. I called and sure enuf, they were on non-DA, though they thought they were OK. DJ there says not caw anymore, but AC/K mix and only Ad network (?? -pls). WHIN-1010 TN in well about 9:15 pm with BKB, sometimes o/CFRB null. Per call sked is 0700-2300 using 50 watts nites. 2-9: 002 WVKO with Mr. Sandman u/o XEDM/KXZZ - first time for them on new calls for me. If you happen to hear CBS on 1540, CHIN picks up CBS feed and is in EE nites. KMPL-1520 noted with s/off at 0005 CST with Terry McCoy, is Talknet nites. CHRS-1040 noted giving WHO fits with EE oldies, FF talk ment. CHRS at 12:15. Do they test often as I have now hrd them 3 times, all after local midnight.

CK-86 FL hrd in CJBC null at 12:27 o/u unID SS. And then WLW-700 was off the air at 12:40 tune-by, only some weak reggae mx with SS DJ, too weak to ID, considerable Cuba 710 slop. This is the first time I have ever heard WLW off, in 30 years of DX'ing. Perhaps there is a Cuban on 700 also, as time "beep beeps" like R. Relej could be heard, but no audio.

Varies in from WJBD-1350 ment. going to new 185' tower in Feb. and the O/M likes his Superadio II real well also. WDKN-1260 v/f finally, congrats R. Wood on hearing them. KFAY-1030 v/1 ment. 24-hour operation. This was from 1-16, amazing daytime cx. KPRM-870 MN sent an unsigned v/f "we heard you" contest, sent b/s. I am making plans to be at the

Limafest this year, should be great to see old friends. I haven't been at a convention since St. Louis in the early '70's. 73 de Rog.

**John H. Damitt** - Box A, K0848 - Bellefonte, PA 16823

I didn't expect to report again so soon but something unusual just occurred the band and I thought I'd better let others know as this may spell out something bigger in the near future.

On Feb. 5 while doing a random bandscan, I was surprised to hear a minute tone on 590 kHz followed by "RR" in cw just two seconds later. After a bit of nulling, I was able to clearly hear the news being given over Radio Relej. There was no trace of Radio Rebelde on this frequency. I quickly went to 570 and did not hear a trace of Radio Relej. Seems as if the Radio Rebelde transmitter was taken off the air on 590 while the 570 Radio Relej transmitter was moved up to 590. It will be interesting to see what happens with the transmitter taken off the air. Perhaps it is getting a good overhaul, or perhaps it is being stepped-up in power. The fact that Radio Relej was moved to this frequency might suggest that it is being reserved for the return of the big transmitter. Should be an interesting frequency to watch. One might also check out the available stations rolling in on 570 now that Cuba has nothing on it at present.

Have also been finding a lot of DX activity on the clear channels during sunset lately. These frequencies are worth checking out with so many new stations coming on the air.

**Neil Bartlett** - 6415 Lakeview Blvd. #8 - Middleton, WI 53562

This is my first Muse, so an introduction is in order: I'm 32, married, and a half-employed writer/editor who's currently looking for a fulltime job in public relations. I've been an NRC member for either two or three years, can't remember which! Back in 1969-72 while in high school, I was a member of the "other club", hi, and logged approximately 650 stations. Somewhere along the way the records got lost, so I've started over. I'm up to 240 heard, no veries.

I recently bought a Superadio II in a small town west of Madison, for \$42. It's really revitalized my DX'ing! I'm picking up all kinds of new stations with it. I'd love to hear from other members who DX with this radio. Although I've bought all the NRC reprints on antennas, I'm not much of a technical expert, so any advice about what antennas work for you would be appreciated. Before I was using a DX-300 and a Sony boom box.

DX has been good recently. A highlight so far has been KFI-CA, my first CA, with a good sig. 1-28 pm.

I do most of my DX'ing at SSS. Haven't done any MM's so far this season, but hope to get at least one in before too much longer.

Thanks to all the department editors and headquarters folks who work so hard to pull this off. Being a member of this club has greatly enhanced my enjoyment of BCB DX'ing, and it's great to be back in the hobby. 73's. (Join us often, Neil! -pls)

**Steve A. Bezilla** - 307 Second Ave. - Osceola Mills, PA 16666

This from the Allegheny Mountains. 76 yrs old, retired after 26 yrs. in the coal mines, 23 yrs. road construction carpenter, 5 yrs. in the flower shop. Also a P. RR. fireman in Altoona yards for a short time after my coal mine bit. Only ex-coalminer in the NRC? Now, the good part. Bought a GE Superadio at a discount store, \$42.90, selling for \$39.90 the week before. Have been having a ball with it. The radio or the great reception weather got me over twenty new stations. Mostly late afternoon, sunset. WDR-1460 PA heard only one time but with a good signal. WSRO-1470 MA also quite loud. WENO-1560 OH in with WQXR, a pest there.

Was great hearing WLKE-1170 WI while WVA faded off. Long time since I got west of WVA. Also another day, may have been WJCC-1170 MA, heard an ad for a store in Newton, on the square. WCHP-760 and WJTW-990 NY heard. WDAT-700 MA in several times. WFVC-1090 IN in with talk about Ft. Wayne area. Dec. 24, ice storm here. WJSM-1110 Roaring Springs was off.

So heard WBIB AL. WBT soon took over. Snowstorm in the east gave me WJMC-1310 NJ, road closing. Many new on the air calls heard. WYRV-770 VA, CJFT-530 ON, WBZE-1030 MD, WMYX-720 GA, WQXR-870 AL. This is all old stuff.

Yesterday, 2-8, a new WYKR-1100 VT splashed in with enough for a sign off before WJME overran. Studio location and XR on Rt. 5. Heard SSB or some other. Enjoyed John Malicky's Muses on his trip to and from the convention. Also the member from Michigan using the palm of the hand for station locations (John Rose III -pls), and enjoyed John Rieger's trip.

I'll end with my catch of WKQW-1120, Oil City, PA, about 100 miles west of here. Only heard once after many ties. WUST-MD or WFNO-OH come in. I had to try midday before KMOX gets too loud. Had to use my SM-1 to get WKQW and some of the others. Not connected, just set longways with the GE Superadio II. Very pleased with it.



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