



# DX NEWS

*the magazine of the  
National Radio Club*

— SINCE 1933 —

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## STATIC FROM HQ

This week we have another BIG issue, just 4 weeks since the last BIG issue. The only difference is that this one is being assembled solely by Dick as Gary is away on vacation this week. Nice timing Gary!! So if there are any errors this week, the buck stops with me. Seriously, we thank the many regular contributors as well as the irregular column participants and those of you who can author technical (but understandable) articles. There should be something inside to suit just about everyone's tastes. So on with the show....

We received a second request for help from another DXer in South Africa. Les Wright writes that he recently visited our country and heard many of our stations. He has one problem now that he is back home- he has adequate equipment but is anxious to have some recordings of WNEW in New York. Les would like to trade cassettes with someone who can furnish him WNEW. In return he would send tapes with such goodies as CAPITAL RADIO- Republic of Transkei, CHANNEL 702- Republic of Bophutatswana, RADIO 5- South Africa, RADIO ONE- Republic of Zimbabwe, RADIO MOZAMBIQUE, RADIO BOTSWANA, etc., etc. Here's a chance to help a DXer; maybe we will gain a member in South Africa. Write to: Les Wright, 8 Fraser Road, Queensburgh, NATAL 4093, Republic of South Africa.

Several members recently have sent clips for filler and asked whether we have ever received earlier mailings of clippings or whether we have no interest in them. We sincerely appreciate receiving clips- we cannot use all of them immediately and in some cases not at all. Please realize that clips are used as filler in most cases. We keep ALL clips received for eventual use, but size and eventual timeliness force us to periodically dispose of the older ones. Keep the faith, we'll use as many as possible- and DO keep them coming to HQ!!!

## CPC TESTS

CPC action this week includes the following tests. It's still not too late to request a test from that rare station for the membership!!

- 3/2 WCWA-1230 Toledo, OH 0000-0400 ELT. Format not known. Reports to: Mon. Denny Moon, WCWA, 604 Jackson, Toledo, OH 43604. Arranged by Ken Romstadt/NRC.
- 3/2 WFRA-1450 Franklin, PA 0200-0300 ELT using tones, sweep tones, code Mon. ID's and music. Will use 1000 watts day power. 1967 test from here was heard widely. Reports to: Robert Sauber, GM WFRA, Box 908, Franklin, PA 16323. Arranged by Jerry Starr/NRC.
- 3/2 KNWS-1090 Waterloo, IA 0300-0400 ELT using 1000 watts ND and tones Mon. both 400 & 1000 hz, also music. PREPAID calls ONLY to (319) 234-2658. Send SASE with report to: Dave Dohes, KNWS, 4880 La Porte Rd., Waterloo, IA 50701. Arranged by Todd Skaine/IRCA via Bruce Porter.
- 3/9 WSAJ-1340 Grove City, PA 0100-0130 ELT (possibly 0200) with tones, Mon. sweep tones, code and spoken ID's, march music, etc. Will be using 100 watts, see last issue for more details. Reports to: Jim George, Station Manager WSAJ, Grove City College, Grove City, PA 16127. Arranged by Jerry Starr/NRC.

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# DOMESTIC DX DIGEST

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Here we go with another very nice sized column this week, thanks to all who sent their items in. When sending your tips in, please keep them on one side of the paper, type or neatly write, ELT, double space between tips, etc. All items submitted become the property of the trash man after use and can not be returned! Here goes:



### SPECIAL:

- 1420 WFLT MI FLINT - 2/10 1422 noted on new calls w/ID, "The New Sound," Format: CW. Ex-WAMM. (IH-MI)
- 1570 WIFF IN ALBURN - 2/10 1408 w/strong signal, alone, usually CHLO dominates during the day. Evidently CP for 1000 watts must indeed be on. (IH-MI)

### DX TESTS:

- 630 WAVU Not heard by BR-NY, Heard by EL-IL.
- 810 WDMP Not heard by EL-IL.
- 920 WHJJ Fell asleep 1/2 hour before test. EL-IL.
- 980 WKLF Heard by EL-IL.
- 1080 KKPX Not heard by DS-DE, RA-MA, RJE-NJ\*, Tentative by IE-MI. Slept thru by BH-WA, NH-WA.
- 1320 WENN Not heard by BR-NY, Heard by EL-IL.
- 1310 WIBA Not heard by EL-IL.
- 1350 WCSM Tentative by EL-IL.
- 1420 WLET Tentative by RA-MA, Not heard DS-DE, Heard on 1st DX EL-IL.
- 1440 WGIT Not heard by EL-IL.
- 1450 WBYZ Not heard by EL-IL.
- 1590 WSWW Not heard by EL-IL, Heard by BR-NY.



\*-Russ, KRLD runs the MoR mx, they were loud here at the time KRPX was due to test. (DS)

### FREQ. CHECKS:

- 1st MON. . . WCNC-1240 per list. (BB-NY)
- WELL-960 not heard. (EL-IL)
- KEBB-1550 not heard. (EL-IL, DS-DE)
- WORV-1580 0100-0115 w/organ mx, NOT ON LIST! (EL-IL)
- 1st TUE. . . WBGD-1340 Not heard. (RJE-NJ)
- WKCB-1340 Not heard. (RJE-NJ)
- 1st FRI. . . WSVL-1520 per list. (RJE-NJ)
- WHIC-1520 per list. (RJE-NJ)
- 1st SAT. . . WKSK-580 not heard. (RA-MA)
- 1st SUN. . . WEVA-860 not heard. (EL-IL)
- KCII-1380 not heard. (EL-IL)
- 2nd MON. . . WPHG-980 w/dial tone. (DS-DE)
- 2nd TUE. . . KNDC-1080 (RK-IL) Is this thing unsked or a reg.? (DS)
- WHCC-1400 not heard. (RJE-NJ)
- 2nd SUN. . . WMOV-1360 not heard. (RA-MA)
- 3rd MON. . . WAYX-1250 per list. (BB-NY)
- 4th MON. . . WGOE-1590 w/ID only. (BR-NY) Not heard. (EL-IL)
- WCON-1450 not heard. (BR-NY, EL-IL)
- WNBZ-1360 not heard. (BR-NY, EL-IL)
- WATA-1450 not heard. (BR-NY)
- WJDY-1470 not heard. (EL-IL)
- KCJB-910 Tentative w/TT. (BR-NY) Heard per list. (EL-IL)
- 4th TUE. . . WKEN-1600 Not heard. (BR-NY, EL-IL)
- WCHE-1520 tentative w/weak TT u/KMPL/KOMA/WKBW. (EL-IL) (Sorry, Eric, not enuf info for a verie-hi! DS)



### MIDDAY-MIDNIGHT:

- 540 KNMX NM LAS VEGAS - 2/7 1925 poor-fair w/SS mx, long ID, S/off 1949 in SS and EE. (RL-KY)
- 550 WHLM PA BLOOMSBURG - 2/2 1654-1710 poor in WGNG/CFNB null w/NBC nx, local nx, ID then Top 40 mx. (RA-MA)
- WKRC OH CINCINNATI - 2/2 1731-1735 1st time heard since '66 w/"KRC" ID, stocks, wx in WGNG null. (RA-MA)
- 560 WOOF AL DOTHAN - 2/3 1820-1830 heard w/Top 40 mx, annc'r saying goodbye, s/off fair but u/severe static. (HJH-PA)
- 580 CKWW ON WINDSOR - 2/2 2005 End of nx then MoR. (BM-WI)
- 590 WFLO GA ATLANTA - 2/2 2015 w/talk on housing. (BM-WI)
- WROW NY ALBANY - 2/9 1503-1525 w/wx, ID, BPL mx, "Musicradio 59" ID's, does he verie? (BB-NY) Used to send out a v/q, Bill. (DS)
- 600 WFST ME CARIBOU - 2/4 1630 mention of downtown, poor ID, in/out w/CFPC/WICC. (BC-VT)

- 610 WDAF MO KANSAS CITY - 1/29 2325 w/K-C wx, "61 Country" promo. (MS)
- CKTB ON ST. CATHERINES - 1/28 2320-2325 alone w/sports. (RN-IL)
- 2/2 2039 w/James Taylor song, ID, PSA, Wx. (BM-WI)
- 630 CFCO ON CHATHAM - 2/5 1240 talk on corn production, several mentions of Chatham, fair w/WTMJ splash. (BM-WI)
- 640 CBN NF ST. JOHNS - 1/27 1634 very good w/St. Johns nx. (BC-VT)
- 690 WTIX LA NEW ORLEANS - 2/4 1835-1840 weak w/ID, CST time checks, rock mx, ad. (MT-MD)
- WYIS PA PHOENIXVILLE - 2/2 1716 ID and mention of. Phila. (BM-WI)
- 710 WKRG AL MOBILE - 2/8 2015 Weather Central forecast, tide report, Herb Alpert song. (BM-WI)
- WGBS FL MIAMI - 2/4 1812-1815 temp.s given for FL cities, Billy Joel song, lost at pattern change. (BM-WI) 2/3 1750 doing a job on WOR, noted w/Valentines promo then rr. (HJH)
- CHYR ON LEAMINGTON - 2/3 1631 "Radio 7 CHYR" ID. (BM-WI)
- WDSM WI DULUTH - 2/2 1627-1634 amazingly early, xlnt and alone w/CW mx, wx, sports, local ad. (RL-KY)
- 730 KSUD AR W. MEMPHIS - 2/1 1830 church annt for AR, TN, MS. (BM)
- WFMW KY MADISONVILLE - 2/4 1749 several ments. of Madisonville. (BM)
- WPIT PA PITTSBURGH - 2/3 1730 very strong w/REL program then mention of WPIT-FM. (RL-KY)
- WJMW AL ATHENS - 2/3 1814 weak w/"AL Country" ID, CW mx. (RL-KY)
- KWRE MO WARRENTON - 2/3 1845 good at s/off, no SSB. (RL-KY)
- 740 WBAM AL MONTGOMERY - 2/5 1830 w/s/off, no SSB. (BM-WI)
- WPAQ NC MT. AIRY - 2/8 1749-1800 fair w/CBL w/instr. mx, ID, ads, local wx til s/off w/no SSB. (RA-MA)
- 750 WPDJ WV CLARKSBURG - 2/2 1737 noted w/news. (BM-WI)
- KMMJ NE GRAND ISLAND - 2/2 1813 ad for local restaurant, wx. (BM)
- 780 WCKB NC DUNN - 2/3 1800 barely there w/ID at s/off, u/strong WBBO.
- WBBO NC FOREST CITY - 2/3 1755-1815 very good at times, o/u (HJH) WCKB til 1800, Top 40 mx w/female DJ. (HJH-PA)
- 790 CKMW ON BRAMPTON - 2/7 1715 w/rock-pop mx, frequent ID's "790 CKMW". (TW-ON)
- WAKY KY LOUISVILLE - 2/3 1800 weak but clear, "The station you've grown up with," local and AP nx. (MT-MD) The station I grew up with closed down last October! (DS)
- 810 WTNV NY WATERTOWN - 1/28 2024 good w/ID. (BC-VT)
- WSJC MS MAGEE - 2/5 1844-1850 good w/spots, weather, sports til fade out. (BM-WI) 2/5 1850 sports nx, ID then gone at pattern change, no WGY. (MT-MD) 2/2 1848-1852 good in WGY null w/sports, pop mx, becoming a regular here. (RL-KY)
- 820 WAIT IL CHICAGO - 2/2, 2/3 1830 in nicely w/EZL mx, "AM-82" ID's, weather, stocks. (MT-MD) 2/5 1827 very good w/boat and Chicagooooo Tribune ad, ID, news. (RL-KY)
- 850 WRUF FL GAINESVILLE - 2/5 1838 in/out quickly w/ID. (BM-WI)
- WKIX NC RALEIGH - 2/6 1752 atop w/two ID's, promo. (DY-MI)
- 860 WSON KY HENDERSON - 2/2 1644 fair w/"Radio 86" ID. (RL-KY)
- WDMG GA DOUGLAS - 2/5, 2/6 1809-1830 weak w/regional news, GA net., also running South GA Bkb game. (MT-MD) 2/6 1817 fair o/u CJBC w/mention of S. GA., farmer ad. (WPT-DC)
- 870 WGTL NC KANNAPOLIS - 1/30 1726 in extremely well w/s/off, good Unauroral nite to Carolinas. (HJH-PA)
- 900 WGOK AL MOBILE - 2/6 1842 DJ (The Fox) taking calls from people saying goodnight to their dear ones. (RL-KY) Whenever I try to talk to a dear, they usually run away! (DS)
- 920 WFIA KY LOUISVILLE - 2/6 1750 w/ID o/u UNID rocker. (DY-MI)
- WGST GA ATLANTA - 2/5 1900-1913 fair w/Ramada ad, ID, news, then talk show. (MT-MD)
- 930 WITN NC WASHINGTON - 1/30 1704 loud w/editorial. (MT-MD)
- 940 WCPC MS HOUSTON - 2/8 1745 fair w/ads. (TW-ON) (BM-WI)
- 960 WTCH WI SHAWANO - 2/5 1415 mentions of nearby towns, highway 45.
- WPRT KY PRESTONBURG - 2/5 1759-1810 good w/no WERC w/rr, weather, local spots. (RL-KY)
- 970 WYNZ ME PORTLAND - 1/28 2055 fair w/"97 WYNZ" ID. (BC-VT)
- 980 WPHG VA BRISTOL - 2/4 1815 noted w/Tri Cities ID, Sullivan County (TN), gone at power drop. (MT-MD)
- 990 WAOP MI OSTEGO - 2/5 1425 ID then weather. (BM-WI)
- WHOO FL ORLANDO - 2/4 1817 two nice ID's, then power drop leaving WNOX who was having problems dropping power. (MT-MD)
- WEEB NC SOUTHERN PINES - 2/5 1800 noted w/full s/off, no SSB, leaving WNOX. (MT-MD)
- KWAM TN MEMPHIS - 2/5 1833-1845 loud and mostly alone w/gospel, ID's, full s/off w/mention of 10000 watts, FM 101, no SSB. (MT-MD) 2/7 1847 s/off poor in WCFL splash. (BM)
- 1010 KDJW TX AMARILLO - 2/8 1925 talk of summer Bkb on TX, PSA. (BM)
- WGUN GA ATLANTA - 2/5 1815 s/off w/no SSB. (BM-WI)
- 1020 WCIL IL CARBONDALE - 2/5 1814 noted w/sports. (BM-WI)
- UNID 1/21 1744-1800 u/KDKA w/mx, talk. Maybe WCIL? (BR-NY)

1030 KCTA TX CORPUS CHRISTI - 2/9 1849 equal or atop WBZ w/REL prog., has SSB before s/off anmt. (IH-MI)

1040 KPBC TX DALLAS - 2/8 1906-1915 in well w/WHO nulled, Religious mx, s/off mentions 1000 watts. (BM-WI) 2/9 1845 w/ad for Bible book store in Ft. Worth, fair w/no WHO. (IH-MI)

1050 WCMS VA NORFOLK - 2/6 1733-1745 fair w/Mutual and local nx, CW mx, s/off ment. FM 101, no SSB. (MT-MD)

KBUF KS GARDEN CITY - 2/2 1832 strong w/nx, wx, rr. (RL-KY)

WJXY SC CONWAY - 2/9 1756 weak in crowd at s/off, no SSB. (RL-KY)

1060 WAMT FL TIPUSVILLE - 2/8 1813-1815 briefly noted w/one ID, Top 40 mx, gone at power/pattern change. (RA-MA)

UNID 2/8 2110 classical mx, FF talk, suspect CJRP. (BM-WI) Yeah, sure sounds like them. (DS)

1070 KHMO MO HANNIBAL - 2/2 1832 noted w/singing ID. (BM-WI)

WCIR WV BECKLEY - 2/3 1756 w/ID surfacing the pile. (DY-MI)

1080 WOAP MI OWASSO - 2/6 1545 city mention then MoR mx. (BM-WI)

KYMO MO E. PRAIRIE - 2/1 1752 travel line # then weather. (BM-WI)

WNWI IN VALPARAISO - 2/3 1644 sports nx then weather. (BM-WI)

KNDK ND LANGDEN - 1/23 1800 noted o/KYMN, reported and verie back in about 2 weeks. (EL-IL)

1090 WISS WI BERLIN - 2/3 1658 noted w/nx and wx. (BM-WI)

WGLC IL MENDOTA - 2/6 1600 ID then short nx. (BM-WI)

WBAL MD BALTIMORE - 2/2 1703 poor w/WCII splash/UNID w/local nx, spots. (RL-KY)

1110 WKBG PA WASHINGTON - 2/3 1725 good in WBT null w/MoR. (RL-KY)

1150 CHSJ NB ST. JOHN - 1/26 2002 ID following nx, in w/others. (BC-VT) 2/1 1629 w/rock mx, 2 nice ID's then faded. (MT-MD)

WBAG NC BURLINGTON - 2/6 1750 noted briefly w/wx, local ad, rock mx, much grief from WGBR. (MT-MD) Good Grief! (DS)

WGBR NC GOLDSBORO - 2/6 1800 fading w/CW mx, local ad, full ID before power drop. (MT-MD)

KWKY IA DES MOINES - 2/8 2143 noted w/Bible Reading, ID. (BM-WI)

WJRD AL TUSCALOOSA - 2/4 2240 "Best Country" ID, in/out fast. (BM)

1170 WCOV AL MONTGOMERY - 2/7 1818 alone w/fair signal, BBD mx w/ID by male DJ, still on day power. (WPT-DC)

WAMB TN DONELSON - 2/8 1732-1744 in auroral conditions, o/WWVA for 12 minutes w/ID, BBD mx, CST time checks. (RA-MA)

CKGY AB RED DEER - 1/28 1913 call heard after local ads then into mx, fair w/KPUG nulled. Was trying for KPUG for contest so this was a surprise. (NH-WA)

1210 KOWO MN WASCEA - 2/2 1843 s/off w/town, 1000 watts mentioned. (BM)

WILY IL CENTRALIA - 2/1 1809 w/ad for local tire store. (BM-WI) 1/21 1759-1800 mx then s/off, no SSB. (BR-NY)

KGYN OK GUYMON - 2/7 1905 xlnt, no WCAU w/UPI and local nx. Said nx came from Stillwater, change in city? (RL-KY)

1220 CKCW NB MONCTON - 1/26 2034 in w/others w/ID, nx. (BC-VT)

WGNV NY NEWBURGH - 2/2 1712 good w/commentary on gas prices, weather. (RL-KY)

WENC NC WHITEVILLE - 2/9 1758-1800 xlnt w/nx, s/off, says to tune to WQPR-FM, no SSB. (RL-KY)

KFIB MT SCHMIDTVILLE - 4/1 1800 reading report of Jerry Starr and the various stations he hasn't heard! (PRM-NJ)

1230 WINF CT MANCHESTER - 2/3 2025-2034 Manchester High Bkb, pretty regular here. (TF-PA) Pretty irregular here! (DS)

WITH MD BALTIMORE - 2/3 2020-2040 ID'ing as "The New WITH" w/rock mx, format change? Reported. (TF-PA) Yes, indeed, daytime regular here w/WCMG. (DS)

WHBY WI APPLETON - 2/7 1348 appliance ad, mention of downtown. (BM)

WJOB IN HAMMOND - 2/7 1418 promo for high-school Bkb game. (BM-WI)

1240 WJEJ MD HAGERSTOWN - 2/3 2100 ID then CBS news and lost. (TF-PA)

WDUN GA GAINESVILLE - 2/1 2000 on top w/ID then local ad. (EL-IL)

KANE LA NEW IBERIA - 2/8 1845 fair-good signal w/ad for local Pizza place, weekly Top 30 program, ID. (IH-MI)

1250 KNCO CA GRASS VALLEY - 2/7 2052 Good signal w/ID after MoR mx, local KYAC easily nulled. KYAC has either been on reduced power or off 15-45 minutes after local sunset. (BH-WA)

CHWO ON OAKVILLE - 1/29 1800 noted ID'ing as "Golden Horseshoe Radio" then into "G. H." Radio Theatre. (MT-MD)

1260 WMCH TN CHURCH HILL - 2/5 1746 good briefly w/nx, CW mx. (RL-KY)

WNOO TN CHATTANOOGA - 2/8 1759 good w/Super Radio ID. (HJH-PA) 2/8 1805 ID, sounded like WKSX, MYL type format, is this ex-WBUD? (HJH-PA) Sure is, Harry, WKXW w/"Music To Remember." (DS)

WALM MI ALBION - 2/7 2200 w/s/off, mention made of 1000/500 watts, FM, "Our Father" sung by man. (DY-MI)

1270 WLK TN NEWPORT - 2/2 2032-2038 CW mx and ID's, u/WSPR/WXYZ. (TF)

WHBP IL ROCK ISLAND - 1/29 2237 w/ads, promo for "Rock Island Rocks," sports coverage. (MS-AB)

WBIC IL CHARLESTON - 2/7 2025 good w/end of sports show, E. IL Univ. Bkb. (RL-KY)

WWCA IN GARY - 2/5 1515-1530 Big Band mx then nx. (BM-WI)

1280 WMRO IL AURORA - 2/6 1610 poor in WZUU splash w/talk show. (BM-WI)

CKCV PQ QUEBEC - 2/3 2316 o/u CJMS w/FF talk, ID. (SW-MA)

WWTC MN MINNEAPOLIS - 2/9 1950 fair w/mention of local company, ID's as "T-C", Oldies mx, also noted 2/11. (IH-MI)

1290 WWSA GA SAVANNAH - 1/30 1733 ending news sponsored by local bank, gave temps for place called Ft. Wentworth, I believe. (HJH)

WIRK FL W. PALM BEACH - 2/3 2253 mixing w/others w/something from UPI, then time check, ID. (SW-MA)

1310 UNID TN 2/4 2200 Univ. of TN Bkb game, WDOO or WDXI? (BM-WI)

1320 WILS MI LANSING - 1/26 1800-1803 noted w/ID then CBS nx. (RN-IL)

WATR CT WATERBURY - 2/3 2152-2205 noted w/Holy Cross Bkb game, ABC nx, o/semi local WKAP, veried by DX'er CE. (TF-PA)

WGET PA GETTYSBURG - 2/3 2150 o/WKAP w/sports, rock mx. (TF-PA)

WKAN IL KANKAKEE - 2/6 1632 w/ID then MoR. (BM-WI)

1330 KPH KS WICHITA - 1/29 2235 w/wx, ID as "13 KPH". (MS-AB)

1370 KGNU KS DODGE CITY - 1/29 2359 w/CBS nx, local ID. (MS-AB)

1380 WLRV VA LEBANON - 2/1 1815 sneaking thru w/s/off, no SSB. (HJH-PA)

WLCY FL ST. PETERSBURG - 2/7 2325 w/station slogan, atop w/good signal, 2nd time here. (IH-MI)

1390 WLAN PA LANCASTER - 2/1 1715 surfaced briefly w/ID, u/o WFMJ/WRSC. (TW-ON)

WRSC PA STATE COLLEGE - 2/1 1745 fair at s/off. (TW-ON)

WFMJ OH YOUNGSTOWN - 2/1 1800 good w/ID as "Radio 14, the Voice of Ohio." (TW-ON) B'casting bad breath! (DS)

1400 WMAN OH MANSFIELD - 2/4 1800 w/spots, "Radio 14", "Total News and Info. Center" ID's, AI nx. (DY-MI)

WYSL NY BUFFALO - 2/8 1615 on top w/sports news, no sign of CKCB.

1410 WGRD MI GRAND RAPIDS - 2/6 1657 mention of Moral Majority in MI, ID on hour. (BM-WI)

KCOL CO FORT COLLINS - 1/29 2253 w/pop mx, talk about skin injuries, ID, weather. (MS-AB)

WUNI AL MOBILE - 2/7 1833 turned out to be the strong CW station on this auroral nite, "UNI" ID's, CST time checks. (HJH-PA)

KQV PA PITTSBOIGH - 2/4 1809 w/CBS and local news. (DY-MI)

1420 WBSM MA NEW BEDFORD - 2/4, 2/5 2015+ tele-talk, pretty much owns freq. here at nite. (TF-PA) What? No WCOJ??? (DS)

WBEC MA PITTSFIELD - 2/4, 2/5 u/WBSM, noted both nites w/local Bkb games, reported. (TF-PA)

WHK OH CLEVELAND - 2/6 2115-2149 replaced above as regular, female DJ, CW mx, also was fixing couples up on the air. (TF-PA) Usually a switch between CKPT and WHK here. (DS)

1430 WEEF IL DEERFIELD - 2/6 1700 ID w/mention of Deerfield. (BM-WI)

1440 WHHH OH WARREN - 2/3 2135-2147 at local strength, noted w/talk show, local WNPV nulled. (TF-PA)

WNFL WI GREEN BAY - 2/4 1700 news, ad for ski/sport store. (BM-WI)

1450 WKLA MI LUDINGTON - 2/6 1708 w/ID, "KLA" Weather. (BM-WI)

WJPA PA WASHINGTON - 2/2 1815 noted w/"14 JPA" ID, mention of Mutual net., Larry King, EZL mx. (MT-MD)

WFIX AL HUNTSVILLE - 1/31 1900 above mess w/ID, news. (EL-IL)

KFIZ WI FOND DU LAC - 2/3 1820 w/ID, commentary. (DY-MI)

1460 WBNS OH COLUMBUS - 2/3 1902 w/news promo. (BM-WI) 2/6 1930 weak w/UNID w/weather, ID. (RL-KY)

WKAM IN GOSHEN - 2/3 1859 w/contest info, news. (BM-WI)

WBRN MI BIG RAPIDS - 2/3 1609 w/rr o/u WPON, fair signal. (DY-MI)

1470 WLAM ME LEWISTON - 2/5 1836 fair w/ad, weather, ID. (SW-MA)

CHOW ON WELAND - 2/4 2150-2225 very strong between deep fades w/CW mx, promo for favorite DJ! (MT-MD)

WTZE VA TAZEWELL - 2/1 1800 noted briefly at s/off w/mention of FM, no SSB. (MT-MD)

WVOL TN BERRY HILL - 2/2 1825 weak w/WMBD w/weather, many local spots, ID. (RL-KY) Did you take DX lessons from Truax?(DS)

1480 WFXW IL GENEVA - 2/7 1200 w/ID then news. (BM-WI)

WLEE VA RICHMOND - 2/6 1730 w/news, mention of dance, traffic report, weather. (BM-WI)

1490 WIKE VT NEWPORT - 2/4 1900 w/ID, CBS news, mixing w/WFAD. (SW-MA)

WGEZ WI BELOIT - 2/4 1635 w/Valentine contest promo. (BM-WI)

1500 WYSM AL RAINSVILLE - 2/6 1829 xlnt o/UNID SSB w/s/off. (RL-KY)

1520 WTRG SC MYRTLE BEACH - 2/5 1742 w/weather, ID. (BB-NY)

1530 WGRJ FL JACKSONVILLE - 2/8 1800 fair w/wx then fade, surprise!(TW) 2/7 1925 Spanish mx then s/off w/SSB, KCLR? (BM-WI)

1540 WRSM AL SUMITON - 2/10 1828 w/CW mx then s/off w/mention of 1000 watts. (IH-MI)



"Help Beautify Junk Yards. Throw Away Something Lovely Today!"

CADELL BROADCASTING, INC.

1550 KKJO MO ST. JOSEPH - 1/29 2332 good w/rock mx, ID by female anno'r, used to be common a few years ago but seldom heard recently. (MS-AB) True, true! (DS)

WLUX LA BATON ROUGE - 2/6 1816 fair o/WMOO w/ID, PSA. (RL-KY)

WKBA VA VINTON - 2/10 1736 w/florist shop ad, equal w/CBE. (IH)

WYNX GA SMYRNA - 2/3 1815 w/ID then probable s/off. (DY-MI) Didn't they just go fulltime? (DS)

WOKJ MS JACKSON - 2/7 2322 jingle/ID in/out. (BM-WI)

1560 WAGL SC LANCASTER - 2/2 1747 noted o/WPAD w/rr mx, ID. (EL-IL)

1570 WSSA GA MORROW - 2/7 1806 in fair w/news, Navy's "What happened on this date", promo for car race then CW mx, Canadians conked by aurora. (HJH-PA).....fancy word....conked!(DS)

WFGN SC GAFFNEY - 2/10 1815 fair at s/off by man w/mention of 250 watts. (WPT-DC)

1580 UNID 2/6 1802 s/off w/mention of "People's Radio," virtually no sky wave so likely close-by or southern. (DY-MI)

1590 KVBG KS GREAT BEND - 1/29 2258-2319 good w/fitness ad, ID, NBC news, long local news, weather. (MS-MB)

WLFA GA LAFAYETTE - 2/6 1824 good w/ID then rr. (RL-KY)

1600 WNEU WV WHEELING - 2/3 1800 w/CW mx, FM mention and 6 AM s/on, "we don't want to sign off now", o/WAAM. (DY-MI) Doesn't sound like a s/off, more like a sob story! (DS)

MIDNIGHT-MIDDAY:

610 WSGN AL BIRMINGHAM - 2/9 0056 noted w/"Contact" program w/Lee Hall. (BM-WI)

CKTB ON ST. CATHERINES - 2/3 0101 fair w/news, local spot, AM/PM ID. (RK-IL)

680 CPTN ON TORONTO - 1/26 0210 noted w/temp. check, ID. (BM-WI)

WMPS TN MEMPHIS - 2/9 0202-0225 w/CW mx, PSA's, ID. (BB-NY)

WRNG GA N. ATLANTA - 2/9 0200 loud on ET w/ID, thanx to auroral conditions. (BB-NY) 2/9 0229 strong OC, ID noted w/mention of returning at 5:30, then various TT so likely a PoP, noted first at 0100. (DS-DE)

690 KHEY TX EL PASO - 1/26 0208 noted w/full ID. (BM-WI)

730 CHYR ON LEAMINGTON - 1/30 0106 in weakly after local CKDM s/off, w/wx, rr, sports, soon lost to XEX. New for me from any of my DX locations! (MS-AB) Regular here w/CKAC nulled.

WPKX VA ALEXANDRIA - 2/4 0705 community note, mention of MD and VA. (BM-WI) Note correct call, Bob. (DS)

WPIT PA PITTSBURGH - 2/1 0659 w/full ID, FM mention. (BM-WI)

740 KRMG OK TULSA - 1/26 0149 ID w/mention of concluding test, best signal ever heard from them. (BR-NY)

KCMC TX TEXARKANA - 2/9 0300 fair u/KRMG OC w/CW mx, ID on hour then news. (DS-DE)

770 UNID 2/9 0313-0331 u/WABC's PoP w/religion, tones killed it, though. KOB maybe? (BB-NY)

920 CFRY MB PORTAGE LA PRAIRIE - 1/26 0300 clear but weak w/ID. (BM-WI)

WGST GA ATLANTA - 1/26 0259 clear but weak w/ID. (BM-WI)

960 WERC AL BIRMINGHAM - 2/9 0134-0145 Top 40 w/Bill Lawson. (BB-NY)

UNID 2/2 0041-0057 o/u WFIR w/TT, frequent ID's but only in fades (Hi Murphy!), low voiced male, maybe WELI r/c on late? (DY-MI) Sounds like it. (DS)

970 WEBR NY BUFFALO - 1/30 0006 w/Jazz in the Nitetime, weather. (MS)

WDAY ND FARGO - 2/9 0150, not needed, but noted w/wx, promo for Larrys King. (BM-WI)

980 WONE OH DAYTON - 1/30 0005 strong w/"All Nite Truckers Show", ID's as "98 Country, WONE." (MS-MB)

WPIP FL POMPANO BEACH - 2/9 0210-0225 noted w/rr, ran about 6 ads in a row when I hit here, between electrical noise. (DS-DE)

990 WZZD PA PHILADELPHIA - 2/9 0239-0257+ loud on ET, OC and varying TT, ID'd 0256. (RA-MA) 2/9 0045-0130+ ET, sounded like PoP w/varying TT, no doubt on 50000 watt pattern as way atop WNOX here. (DS-DE)

1070 UNID 2/9 0227-0301 somebody here w/PoP, loud. Help? (BB-NY)

KNX CA LOS ANGELES - 2/9 0220 way u/CHOK w/weather center ment.(IH)

1150 WDEL DE WILMINGTON - 2/9 0208 noted running OC, on/off most of AM, CKOC loud both w/OC on & off! Hi Joe! (DS-DE)

1190 KLIF TX DALLAS - 2/2 0054 promo for contest, then "Speaking of Everything" w/Howard Cosell. (BM-WI)

1230 WKBO PA HARRISBURG - 2/9 0239 on top briefly w/promo, when the locals' away, the DX'ers will play! (RK-IL)

1240 WWCO CT WATERBURY - 2/7 0644-0651 Waterbury's Radio Station noted w/sports, weather, regular here, reported. (TF-PA)

WEBQ IL HARRISBURG - 2/9 0201 fair u/WINN w/ID. Local WEDC was off all nite for the first time ever. Was #10 on my most wanted list, 2 left in IL now! (RK-IL)

KAKZ KS WICHITA - 2/9 0221 fair w/ET, ID then CW mx. (RK-IL)

1240 WEBQ IL HARRISBURG - 2/11 0006 w/snow storm wx, mentioning to tune to Ch. 9, noted later w/school closings. (IH-MI)

WTAX IL SPRINGFIELD - 2/11 0100-0106 CBS nx then Larrys King. (IH)

1250 WTMA SC CHARLESTON - 2/8 0005 w/ID then rock mx. (IH-MI)

1260 WWDC DC WASHINGTON - 2/7 0145-0205 noted off this AM. (WPT-DC)

1280 WGBF IN EVANSVILLE - 2/3 0005 xlnr w/2 ID's, rr. (DY-MI)

1340 WGAU GA ATHENS - 2/8 0109 1/2 fair w/weather, s/off w/SSB. (RK-IL)

1350 WINY CT PUTNAM - 1/31 0645-0652 local sports, weather, ads, verie back in 6 days! (TF-PA)

1380 WTVR VA RICHMOND - 1/31 0628-0630 clear ID, CBS nx, u/WAWZ. (TF)

UNID 2/9 0030 caught mention of 1000 watts, missed ID due to strong WBNX. (WPT-DC)

WAMS DE WILMINGTON - 2/9 0200 s/off noted then OC leaving a very loud WBNX under. (DS-DE)

KOWB TX BROWNWOOD - 2/8 0207 very good signal w/promo for cherry pie contest, jingle/ID. (BM-WI)

1400 WSIC NC STATESVILLE - 2/10 0052 heard w/quick ID, time check. (RJE)

1430 WJRB TN MADISON - 2/8 0210-0230 way atop w/CW mx, even had a couple of ads, usually WNJR/WENE/CKFH here. (DS-DE)

1440 WCHB MI INKSTER - 1/22 0214 w/ID and contest promo. (BR-NY)

KDNT TX DENTON - 2/2 0015 CW mx, promo for TX Rangers. (EL-IL)

1450 WILM DE WILMINGTON - 2/9 0103-0215+ ET mostly w/OC, some TT. (DS)

WMYB SC MYRTLE BEACH - 1/26 0005 atop w/s/off. (RJE-NJ)

1460 WCMB PA HARRISBURG - 2/8 0228 contest info w/call letters repeated several times, my 500th station! (BM-WI)

UNID 2/10 0020 sounded like WKMX, loop was N/S. (IH-MI)

1470 WOHO OH TOLEDO - 1/22 0253-0300 w/mx, ID o/jumble. (BR-NY)

1480 WKND CT WINDSOR - 2/1 0625-0638 church notes, rousing gospel music. (TF-PA) Enough to wake-up Musco? (DS)

CHRD PQ DRUMMONDVILLE - 2/2 0030 w/WJIT off, FF ID, Beatles.(BB)

WHBC OH CANTON - 1/22 0223-0249 good signal w/ID, B/SOL mx, almost as strong as local WOLF-1490! (BR-NY)

1550 WOKJ MS JACKSON - 2/2 0111-0144 this long wanted one noted w/REL mx, couple of sponsors, etc. (BB-NY) 2/9 0132 w/ID by male, CST time check. (IH-MI)

WMOO AL MOBILE - 2/9 0140-0151 running OC off/on, period of dial tone noted, ID given at end then off. (DS-DE)

1570 WCRL AL ONEONTA - 2/9 0333 ET w/ID, mentioned 10 kw. (BB-NY)

WPEP MA TAUNTON - 1/22 0600 s/on noted w/SSB atop freq. (RJE-NJ)

1600 WIXY MA EAST LONGMEADOW - 2/7 0653-0656 CW mx w/promo for Jambouree Show at 10 AM. (TF-PA)

WLNG NY SAG HARBOR - 2/7 0658 briefly atop w/WLNG Weekend filler, Top 40 mx, not enuf for a report. (TF-PA) Nice v/l back for the ET I caught last week, Tony! (DS)

WJSA PA JERSEY SHORE - 2/7 0659-0712 s/on w/two verses of vocal SSB, detailed message, 5 minutes of religion then ABC nx, music followed, reported! (TF-PA) 2/12 0659 ID then vocal SSB, gone at 0700 to WKEN! (DS-DE)

KCRG IA CEDER RAPIDS - 2/10 0013 good on top w/full ID, copied many times before but w/only partial ID's. (IH-MI)

RAN-DUMBS:

A couple of items of interest w/this weeks stuff for those who like to get into this kind of stuff.....BOB MIELCAREK mentions hearing "This is KSG-980 Testing" on 920 on 11/17/80 0220-0230. Could this be someone giving an STL transmitter ID? G. HARLEY DELEURERE notes contacting a representative of WVMR-1570, w/mention of a JUNE 15th air-date, w/2500 watts. Address given was RFD 2, Dunmore, WV 24934. MIKE KNITTER notes WNN0 is now on 900, last heard on 990 3/24/80. RAY NEMEC hasn't been able to notice WSQL-1560 as noted a couple of issues back, he hasn't noticed them, phone company has no listing. Want to double check that one WHEELS?

Keep up the very fine support, who knows, maybe one of your catches will get a remark from the editor-hi! The cracks are only meant to be all in fun, though, it is exceptionally boring for me to type this up without having a little fun.

IF YOUR NAME IS HERE.....WATCH OUT!

TW-ON	Tom Williamson, Guelph, ON	HQ-180, SM-2
BB-NY	Bill Bergadano, Staten Island, NY	RF1150, LW
BR-NY	Bill Regan, Syracuse, NY	TRF, Superadio, R3000Y
RA-MA	Ray Arruda, Acushnet, MA	SX122, 12 oz. beverage
HJH-PA	Harry Hayes, Wilkes-Barre, PA	Superadio, Zenith T-O, HQ180
NH-WA	Nancy Hardy, Aberdeen, WA	FRG7, SM1
BH-WA	Bill Hardy, Aberdeen, WA	FRG7, SM1
SW-MA	Sharon Waterman, Southwick, MA	HA600A, L
MS-MB	Morris Sorensen, Amaranth, MB	TRF

RN-IL Ray Nemeo, Naperville, IL  
 TF-PA Tony Fitzherbert, Chalfont, PA  
 MT-MD Mike Tuggle, Bel Air, MD  
 WPT-DC William P. Townshend, Wash., DC  
 RK-IL Robert Kramer, Chicago, IL  
 RJE-NJ Russ Edmunds, Kinnelon, NJ  
 EL-IL Eric Loy, Mahomet, IL  
 RL-KY Rich Levin, Louisville, KY  
 BC-VT Bob Curtis, Colchester, VT  
 IH-MI Ian Harris, Milan, MI  
 DY-MI Dave Yocis, E. Lansing, MI  
 BM-WI Bob Mielcarek, Milwaukee, WI  
 DS-DE Who'd you expect, Rusty Potts?

DX60, LW  
 Lyonodyno Xtal, LW  
 TRF  
 HQ129X, HQ100C, Loop, LW  
 HQ150, Loop, SB620  
 TRF, DX100, NC60, LW  
 HQ129X, Loop, Superadio  
 RF2200  
 RF2600  
 DX160, SM2  
 HQ180, SM2, Superadio

See you all next week!

73's & Good DX!

# FRG-7700 MODIFICATION

(Yaesu Tech. Bulletin # 28)

Via Armand Di Filippo

Many of the new Yaesu FRG-7700 units are 1 khz. off when frequencies are recalled during memory operation. At the same time a beat sound is audible.

Below is a photocopy of Yaesu's Technical Bulletin No. 28 outlining the modification to correct this problem. All potential buyers should check with their dealers to insure this modification has been made to the units being purchased.

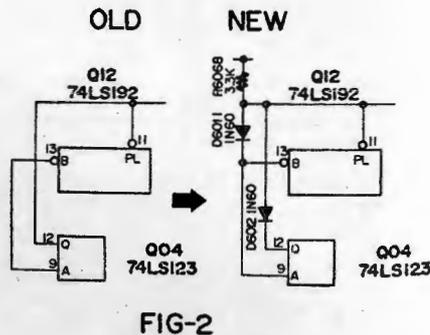
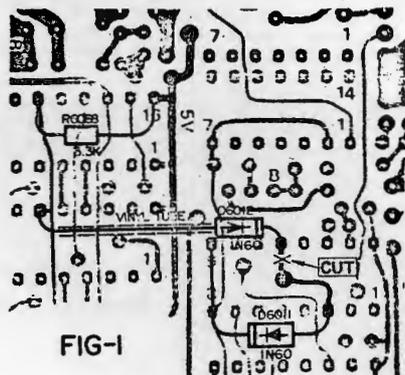
The following modification will correct the 1 kHz error in frequencies recalled from the memory function, during memory operation. It will also eliminate the audible beat occurring during memory operation.

### Parts Needed

- 1N60 GE diode 2 pcs.
- 1/4 watt 3.3Kohms resistor 1 pc.

### Modification Procedure

1. Cut the upper pattern on PB-2175, as shown in Figure 1.
2. Solder the two 1N60 diodes and the 3.3Kohms resistor, as shown in Figure 1.



# INTERNATIONAL DX DIGEST

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

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

All from Connelly this time unless otherwise indicated.....

- 540 VENEZUELA YVOV R. Perija alone w/LA mx, ID 0301 2/3. (Wt'mn) Blasting in, totally dominant w/SS party mx, ID "esta es Radio Perija, la primera" 0529 2/7. (Connelly)
- 541 DOMINICAN REPUBLIC Santo Domingo presumed here w/OC 0555 2/8. (Connelly)
- 550 VENEZUELA Caracas YVKE atop channel w/Mundial ID, disco mx 0600 2/8.
- 580 CUBA CMKF Baracoa good w/woman in SS //600, 590 0525 2/8
- 580 PUERTO RICO San Juan WKAQ noted w/rapid fire SS nx, Reloj mention, WKAQ ID o/u Cuba w/no domestics audible 0604 2/8.
- 595 DOMINICA Roseau 2/3 poor w/talk about the economy 0022. (Waterman)
- 600 COLOMBIA Barranquilla HJHJ atop Cuba w/slogan "desde Barranquilla, Radio Libertad" then festive SS mx 0608 2/8.
- 610 COLOMBIA HJKL Bogota o/slight Morocco 612 hat, mixing w/WIOD; repetitive group vocal mx, RCN ID 0617 2/8.
- 620 NICARAGUA YNM Managua o.jumble w/SS pop mx, slogans about Sandanistas 0624 2/8.
- 630 PUERTO RICO Santurce WQBS good w/brassy mx, Salsa 63 kingle, atop pest Cuban and a third LA; WPRO totally obliterated 0627 2/8.
- 640 COLOMBIA HJBJ Santa Marta u/CMQ; Radio Suceso RCN network ID, Banco de Colombia ad 0520 2/7. (Connelly)
- 640 VENEZUELA Puerto la Cruz YVQO atop Surinam/Guadelupe, potent w/Ondas Portenas ID 0048 2/8.
- 700 JAMAICA JBC Montego Bay blasting in! Atop channel w/annct "Enjoy cricket at its best on JBC Radio One and Radio Two", JBC Radio One jingle, disco, 0536 2/7.
- 710 VENEZUELA Caracas YVKY xlint w/ID "Radio Capital", disco, 0535 2/7.
- 705 ST. VINCENT Kingstown weak w/pgm of Frank Sinatra mx, woman annrc 0125. Gone at 0132 2/3. (Waterman)
- 720 COLOMBIA/CUBA/CUBA HJAN Barranquilla w/accordion mx o/u CMGN w/SS talk, mx; both o/the weak Cuban Reloj stn and weaker WGN 0440 2/7.
- 725 COSTA RICA San Jose TILX good w/2 SS annrcs 0541 2/7.
- 725 SURINAM Paramaribo xlint w/Roger Whitaker song 2323 2/7.
- 730 COLOMBIA HJCU Bogota xlint o/Cuba/CKAG; R. Melodia ID, spirited LA mx 0441 2/7.
- 735 ECUADOR Quito HCGC1 good w/uptempo piano mx and shouted SS words over the mx 0553 2/7.
- 740 CUBA/COLOMBIA Cuban //730 good w/cl mx, a Colombian w/shrill rustic accordion mx well under 0443 2/7.
- 750 NICARAGUA Managua YNX good w/man in SS, Managua mentions, o/YVKS/WSB 0444 2/7.
- 750 VENEZUELA YVKS Caracas xlint w/Radio Caracas ID, TC, jingles, theb disco 2342 2/7.
- 760 CUBA CMCD Habana Reloj o/dogfight of ther LA's 2337 2/7. Reloj o/unid w/US disco-pop mx SS stn, both o/WJR 0453 2/7.
- 760 COLOMBIA HJAJ Barranquilla dominant w/LV de Barranquilla ID and RCN Mention 0647 2/8.
- 765 SENEGAL Dakar very loud w/African instrumentation and female vocals, about 30 dB better than WABC, 2341 2/7. Xlint w/AA talk 0722 2/8.
- 770 JAMAICA Spur Tree xlint atop WABC/HJKH! Announcement "this is nx of Jamaica, the Caribbean and the world from RJR" 0500 2/7.
- 770 PANAMA Chitre totally atop channel w/Radio Nacional de Panama ID; WABC knocked out of the box 0646 2/8.
- 775 COSTA RICA TIW San Jose fair to good w/US pop mx 0449 2/7. R. Uno ID, rock mx, good 0723 2/8.
- 780 CUBA CMJN Camaguey like a local, several annrcs in SS way o/other LA's/WBBM 0448 2/7.

- 780 BRITISH VIRGIN ISLANDS Roadtown ZBV1 loud, o/Cuba; disco, local ads using reverb, then reggae and rapping-type soul records 2340 2/7.
- 800 VENEZUELA YVVB mixed w/PJB; Exitos IB, SS mx 2329 2/7.
- 800 PANAMA Chitre alone on channel w/Panama mentions, several clear La Exitosa ID's, very good 0648 2/8.
- 800 NETHERLANDS/ZANTILLES Bonaire PJB at cruncher level (stronger than local WHDH-850); nx in EE 0502 2/7.
- 810 BAHAMAS Freeport xint w/WGY nulled; nx of various Caribbean Islands, local wx (high 77, low 60), Radio Bahamas ID, gospel songfest pgm w/tinny audio 0503-0506 2/7.
- 810 COLOMBIA HJCY Bogota blasting in w/Radio Sutatenza ID, brassy mx w/SS vocal 0046 2/8. WGY not even audible in null.
- 820 COLOMBIA HJED Cali o/presumed Cuba and slight Morocco 819 het; Cristal ad, Colombia mention 0655 2/8.
- 825 ST. KITT'S Basseterre xint w/ b/cak EE preaching 2326 2/7.
- 830 ECUADOR HCRH2 Guayaquil was indeed what I heard 11/27, 1980 at 0720 w/ID as R. Huancavilca, ex 605. This per Bruce Portzer tip in IRCA DXWW.
- 834 BELIZE Belize City loud w/woman and man in Caribbean EE; discussion about Cuba 0508 2/7.
- 840 CUBA CMHW Santa Clara fair w/Cuban anthem 0458 2/7.
- 840 ST. LUCIA Castries xint w/Caribbean FF (Creole) talk, wild mx 2345 2/7.
- 840 PANAMA Panams City atop w/annct "transmote Radio Nacional... servicio para los Panamenos" 0701 2/8.
- 880 VENEZUELA u/WCBS w/SS ads, reverb, many Venezuela mentions 0044 2/8.
- 885 MONTSERRAT ZJB Plymouth fair w/reggae mx 2348 2/7.
- 890 COLOMBIA HJCE Bogota good o/slight Algeria 891 het, WLS absent; LV de Bogota ID, melow mx 0605 2/7.
- 891 ALGERIA Algiers xint/like a local on car rx w/absolutely no trsce of any 890 stn; female AA chanting w/rhythmic instrumentation 2153 2/4.
- 900 MEXICO XEW Mexico City loud w/man and woman in SS 0558 2/8.
- 900 BARBADOS Bridgetown fair to good w/jazz, Caribbean-accented EE talk by man, Radio Barbados ID, wx report mentioning heavy showers, 2352 2/7.
- 910 VENEZUELA Maiquetia YVRQ bombing in w/brassy LA mx, ad for something in Catia del Mar, Radio Aeropuerto ID, totally annihilating WRCQ 2359 2/7.
- 914 SURINAM Nieuw Nickerie xint, unbelievably loud-stronger than adjacent WHJJ! Hindi mx w/violin similar to AA mx and a shrill female vocal 0040 2/8.
- 940 CUBA/UNID Relej bombing in w/usual stuff, second LA under which sounded like a Colombian, 0716 2/8.
- 950 DOMINICAN REPUBLIC HIG Santo Domingo dominant w/mellow LA mx, Radio Popular ID 2355 2/7.
- 990 COLOMBIA HJDB LV de Medellin on top w/RCN ID 0144 2/3. (Waterman)
- 990 VENEZUELA YVTA Barquisimeto good w/rhythmic SS vocal, Mundial Tricolor ID, then Creedence Clearwater oldie 0717 2/8. Second stn, way under, had Colombian-type accordion mx.
- 1000 VENEZUELA YVNM R. Mil, Moron good w/LA mx, several Mundial MI ID's 0005 2/4. (Waterman)
- 1005 COLOMBIA ad for Cristal (sofr drink or beer)--is this still R. Colossal or is it another HJ?? Feeble 1006 het present. Heard 0156 2/8. (Don't know-no DX here in a month or so-CH)
- 1010 COLOMBIA HJOP Barranquilla had live SS talk which sounded like an auction, audience addressed as "Barranquilleros" o/WINS and second SS LA 0153 2/8.
- 1020 COLOMBIA HJZD Momteria good o/YVRS w/KDKA out of the picture entirely; ad for Cristal, R. Panzeno ID, Colombian accordion mx 0149 2/8.
- 1020 VENEZUELA YVRS La Asuncion loud/alone w/Mundial Margarita ID, TC 0149 2/8.
- 1040 COLOMBIA HJAI Barranquilla good w/Cristal ad, festive mx, CARACOL ID 0429 2/8.
- 1050 COLOMBIA Aracua HJLZ suspected as the stn hrd w/CARACOL ID, LV de ??? ID, atop three other LA's killing WHN 0439 2/8.
- 1060 UNID male annr sounded like one of the E. Habana staff, annct "escuchemos addressa", BFL mx 0135 2/8.
- 1069.8 COLOMBIA HJAG Barranquilla easily splittable from the 1070 mess; SS talk, Emissor Atlantico jingle 0437 2/8.
- 1080 VENEZUELA YVQJ Barcelona good o/u4VRD, o/WTIC w/Abba mx, Puerto la Cruz local ad 0141 2/8.

- 1080 HAITI Port au Prince 4VRD o/u YVQJ, o/WTIC; sporting event w/male FF commentator 0141 2/8.
- 1090 VENEZUELA Caracas YVSZ good w/James Brown record, Exitos MI1 Noventa ID; atop two other SS LA's and WBAL 0458 2/8.
- 1100 COLOMBIA HJAT Barranquilla pegging 3-meter (almost as loud as WOCE-1240 down the street, hi) reverberated ads for carnival, Radio Relej en Barranquilla ID 0142 2/8. A 2nd SS LA way under; no trace of WWUE.
- 1110 CUBA good w/infamous "Patria o Muerte" slogan, Cuban theme mx 0459 2/8.
- 1120 DOMINICAN REPUBLIC HICN Santo Domingo good at s/off stating "transmisorraen Santo Domingo, capital de la republica Dominicana"; anthem followed, 0501 2/8.
- 1130 COLOMBIA HJAC Barranquilla o/bad growl w/TODELAR ID, nx; several other LA's were battling it out underneath w/only an occasional appearance by WNEW 0504 2/8.
- 1150 VENEZUELA YVMN Punto Fijo u/WHUE w/brassy mx, Ondas del Caribe jingle, 1:30 TC 0532 2/8.
- 1160 DOMINICAN REPUBLIC HIGB Santo Domingo very good w/fast SS talk by man, Radiolandia ID, female SS vocal 0521 2/8.
- 1165 ANTIGUA St. John's xint/like a local w/Caribbean-accented EE religious pgm 0120 2/8. (Connelly) Very good w/religious pgm 2343 2/5. (Waterman)
- 1220 BRAZIL R. Globo atop channel w/PP talk, dogged slightly by WOCE buckshot 0117 2/8.
- 1310t COLOMBIA typical Colombian accordion mx, SS talk, rough growl u/WGH 0538 2/8.
- 1350 VENEZUELA-2 outlets listed with same slogan-Radio Vision ID, LA mx w/lots of circus style tinny electric organ instrumentation, well atop WNIS 0113 2/8.
- 1360t COLOMBIA ID sounded like listed Ecos de Risaralda but too much WDRG for definite log 0546 2/8.
- 1403 GUINEA Conakry good w/talk, 0111 2/8. Xint w/Koranic AA chanting 0549 2/8.
- 1411 UNID LA het 0109 2/8.
- 1471 UNID LA, bits of SS vocal, putting mean het on WLAM 0107 2/8.
- 1500 UNID US pop/soul hits, SS-sounding talk weak o/u equally weak WTOF 0055 2/8.
- 1520 COLOMBIA HJLQ Barranquilla rising o/5 SS LA dogfight w/Minuto ID, flute mx; WKBW aurora-ed out 0105 2/8.
- 1531 UNID LA-is this Dominican Republic? Noted 0052 2/8. (SS)
- 1550 COLOMBIA HJCB Barranquilla w/RCN ID o/u other SS LA 0058 2/8.
- 1554 GABON Melene at 2248 2/8 rhythmic, repetitive, mixed-voices chanting w/bongo-like drum accompanying. Then male w/singsomy vernacular, 26 dB/noise on peaks. Appeared to reduce power at 2300 but male annr subsequently hrd at times. (Bailey)

Mark Connelly-West Yarmouth, Ma. HQ180A, 2 37 m. phased LW's  
 Bill Bailey-Holden, Ma. 2 R390A's, 2 1200' phased Beverages  
 Sharon Waterman-Southwick, Ma. HA600A, 1300' LW

And so endeth the Massachusetts IDX...Lists from Bill Townshend and Dick Clark are on hand for next time....Some of you people better contribute to IDX-things are pretty slim these days.....

## THEY JOINED

Welcome to the following new members! Muse soon and introduce yourselves.

Larry Black, 3218 Raymond Dr., Middletown, OH 45042  
 Les Berkman, 19 Ruth Street, Trumbull, CT 06611  
 Dr. Gary Magder, R.R. #3, Tottenham, Ontario LOG 1WO CANADA  
 John L. Rouse (KA3DBN), 2703 Bartlett Lane, Bowie, MD 20715 (Rejoins)

# EUROPEAN BANDSCAN

## 1251 - 1602 KHZ

By Geir Stokkeland

This is a survey of what can be heard of European transmitters in the top end range of the medium wave, here in Scandinavia. It might be a help to North American DXers beaming Europe, and I've tried to indicate what could normally be expected in the early morning at mid winter. Also included is some interesting "domestic" continental DX, possibly worth a try for North American DXers, too.

- 1251 Hungary Siofok s9+10 o/w Libya Tripoli. Watch for R Dublin hr, // to 1188
- 1260 Poland Szczecin atop s9+20. Note the pirate R City, London
- 1269 Deutschlandfunk Neumünster dominant s9+30 w lite c&w mx at this time. Watch for RTV Novi Sad
- 1278 France Strasbourg dominant s9+20 w French light mx/songs. At nite this one closes, and atop comes RTE in Ireland. Watch for Pennine R, Bradford and Irish private Northern R, Omeath. Note split The Big M, Castleblayney-1282v
- 1287 Czechoslovakia Litomysl/Melnik s9+25 dominant w lite pop mx
- 1296 BBC Orfordness at s9. Watch for Yugoslavia, and note split Community R Sligo (SCR), Sligo City-1300
- 1305 Poland w 4 tx's atop at s9+15 w lite mx. Unid possibly Albania Gjirokaster hrd u/. 1314 splatter. Look for RTRF Namur, Marche and note Boyneside R, Drogheda-1305v
- 1323 NRK Stavanger at s9+40 w a consumer px at 0735z. Look for Italy, and R Centro, Madrid - dominant hr when NRK is off nites. Also watch for R Guipuzcoa and LV Valencia. Note Irish Capital R, Cork-1310 (split) & London pirate R Jackie on a weekend sked. A new Irish private here is probably called Sunnykin Independent Radio - recently first hrd hr in Norway
- 1323 clear at this time. Usually used by R Moscow European services from Leipzig, DDR in evening. BBC Zvi, Cyprus normal when Leipzig is off, & also note Romania Tirgu Mures. The block 1315-1335 kHz is also very popular with Dutch hobby pirate stations
- 1332 Czechoslovakia Brno atop w lite mx at s9+20, covering Hereward R, Peterborough hrd u/ w pop mx. Also noteable 3 USSR tx's. Watch for Capital R, Dublin hr, and Italy Roma, which dominates in evening
- 1341 BBC Lisnagarvey s9+10 atop w political commentary, o/ unid poss Hungary Lakihegy. Do note R Club Tenerife, Canary Isl's
- 1350 USSR Kuldiga o/u France Nancy/Lille. Watch for R Borba, Beograd, hrd often at nite when USSR is off leaving only France for the fite
- 1359 DDR Berlin atop s9 o/ several unids. This one is 24h, but was off last summer, leaving space open for CBC, Cardiff and Mercia Sound, Coventry. These should be watched for
- 1368 Poland Krakow atop s9+15 o/ unid probably Manx R, Douglas and yet another unid hrd u/ w classical mx. Krakow is off at nite, often leaving Manx in the clear - nice stn to listen for. Note Italy is hr, along w BBC R Deeside, a new BBC local out of Northern Wales
- 1377 France Lille atop s9 w YL snx (talk), o/ unid prob USSR Chernovtsky/Lutsk
- 1386 clear, at 0730z in the morning. Look for USSR Kaliningrad. Note Kilkenny Community R (KCR) and R Caroline Dublin (prob Sundays only), and also R Limerick-1386v. Splits: Only one of interest - LV de Rioja, a Spaniard noted on 1390, nominally on 1395
- 1395 NOS Hoogezaand at s9 w Hilversum 3 px, and nx from VARA omroep. Note Albania Dürres, and split R Clube do Angra-1394
- 1404 unid prob USSR atop s3-5, o/ unid poss Romania w "native" mx. Split: R Telegarde-1402, an Italian private. Also note two Irish on 1400 - Kildare Community R, Naas and Donegal Community R
- 1413 Süddeutscher Rf Bad Mergentheim at s6 w political interview, 1422 splatter. BBC Masirah Island often knocks out SDR hr, and do note Spanish locals as poss DX - f.inst. R Peninsular de Barcelona, RJ Zaragoza, LV Guadalquivir, LV del Principado and LV Alava
- 1422 Saarländischer Rf Saarbrücken atop s9+15 w MoR format

- 1431 DDR Bernburg atop s9+15 w some flutter, o/ unid prob USSR. Look for R 210 Thames Valley, Reading. 210 was a regular until a couple of years ago - when DDR began using this channel. BBC R Lincolnshire is also here
- 1440 Radio Luxembourg Marnach atop s9+40 - w its usual more or less computerized pop mx format
- 1449 Sender Freies Berlin dominant w lite pop mx at s4, o/ unid prob Italy or USSR w classical mx. BBC Redmoss also hrd hr often at nite
- 1458 BBC R London at s5 w city reports, o/u unid w big band mx. BBCs R Birmingham and Newcastle also hrd regularly
- 1467 Monaco R Monte Carlo at s1 fading down w French OM on football, into YL/OM talk; o/u unid w classical mx, prob USSR Yalta
- 1476 USSR Lvov atop, though weak s1-2; where Austria was at this time I'm not too sure - but it normally should be here. Watch for Spanish locals, especially RJ Bilbao
- 1485 this is a graveyard channel, and could totally amess at this time of day. Dubai is a pest, and DDR Anklam is normal dominant, along w AFRS Keflavik and BBC R Humberside, Hull. Possible DX include BBC R Oxford y NRK Longyearbyen
- 1494 also a-mess - w splatter from 1503. Watch for USSR Leningrad (in evening he w Moscow European service), Holland Hulsberg and also France Bastia
- 1503 Poland Stargard Szczercinski atop s9+30, but look for BBC R Stoke - often hrd at day hr.
- 1512 Belgium Veitem atop s9+25 w consumer px, o/ USSR Soch/Tallinn, at times the two a-mix. Note Community R Youghal, Wexford County Local R and split R City, Cork-1511
- 1521 Czechoslovakia Kosice s9+15 atop o/ unid possibly BBC R Nottingham, weak
- 1530 Vatican Radio OM Italian talk s2-3, southern signals starting fade-out at this time. As Vaticana fades down an unid prob USSR comes atop w OM snx. Note split The Big L, Limerick-1529
- 1539 Deutschlandfunk Mainflingen at s9+20 but w interesting fluttery signal. Voice of Peace with 20 kW hrd from time to time u/
- 1548 amess nw (graveyard ch). Normally dominated nites by R Forth, Edinburgh, Capital R, London and BBC R Cleveland, Middlesbrough. Watch especially for R City, Liverpool (most normal DX), R Hallam, Sheffield and BBC R Bristol
- 1557 France (Culture netw) Nice s6-7 atop o/u unid prob USSR Kaunas. Note split Gabon Melene-1554, and also split R Donegal, Letterkenny-1559
- 1566 Switzerland Sarnen s4-5 w OM talk/wx, o/u USSR Leningrad w local lite mx at s5. Watch for Em do Clube Asas do Atlantico in the Azores
- 1575 DDR Dresden s9+20 atop o/ weak unid, which could be Italy Genova
- 1584 (graveyard ch) unid prob DDR Bad Doberan at s9+20 atop o/ unid prob BBC R Leicester. Watch for Spanish locals, especially R Requete and R Almeria, and the the new R Tay, Dundee outlet in Perth. AFRTS Iraklion al so worth looking for
- 1593 Westdeutscher Rf (WDR) Langenberg at s9+35 dB over w political commentary
- 1602 (graveyard ch) unid prob DDR w pop mx atop weakly // 1584. Watch for Spanish locals, and the new BBC R Norfolk outlet in King's Lynn. Note split Kerry Community R, Tralee-1600
- 1615 no normal m.w. channel, but Dutch hobby pirates use this segment, airing talk/Dutch traditional mx. Hrd well, but often hard to ID

I hope this could be of some help to DXing Europe. More to follow if there is an interest. Any reactions to me at P. O. Box 160, N-6390 Vestnes, Norway - or long distance fone 095-47-72-80575 during weekends - directly.



# INTERNATIONAL DX ACHIEVEMENTS

PAUL SWEARINGEN  
P.O. BOX 500  
MORAN, KS 66755

As a service to members, the NRC currently issues four series of certificates to deserving members who apply for them.

The first series is TOTAL VERIFICATIONS. This series is issued in steps of 500 veries from different stations (i. e., 500, 1000, 1500, etc.). These certificates are issued on the honor system. When you reach or pass a 500-verie step, contact the NRC awards manager. A complete listing of veries is not required.

The second series is for COUNTRIES VERIFIED and is issued in steps of 25 countries verified (25, 50, 75, etc.). For any of the country awards, please send the Awards Manager a list of the countries verified with details from a representative verie from each country as follows: call or slogan, location, frequency of operation, and date (either date of reception or verification). The Awards Manager reserves the right to request a copy of any verie that might be questionable.

The third series is for STATES VERIFIED. Awards are in the categories of 30, 40, 45, and all 50 states verified. Please send the Awards Manager a list of information from a representative verie from each state giving state, call, location, frequency, and either date received or date verified.

The fourth series is for CANADIAN PROVINCES VERIFIED. These awards are issued for 6 provinces verified (territory substitution allowed), 8 provinces verified (territory substitution allowed) and for 10 provinces verified (no substitutions). Note that only veries from April 1, 1949 for Newfoundland count. Send representative information as follows: Call, province, location, frequency, and date of reception.

The awards certificates measure 8" x 10" and are suitable for framing. If you wish your certificate to be unfolded, send an envelope larger than the certificate. Separate certificates will be sent for each award unless requested otherwise. Requests for first awards need not be accompanied by return postage, but postage accompanying update requests would be appreciated. There's no other charge for the awards.

Send suggestions and awards applications to: Paul Swearingen  
P. O. Box 500  
Moran, KS 66755

P. S. ...Please request awards and submit IDXA items on separate pieces of paper, as I keep them separate. Thanks.

DX'er	Yr.	Location	Countries	T. V.	Oceania -- Best Verie
Ray Crawford, 59		New Zealand	161 VAC	1474	426 V12NI-1570 Norfolk Is. 18 w.
Hank Wilkinson, 33		California	79 VAC	510	130 WXLE-1385 Canton Is. 250 w.
Gene Allen, 40		California	65 VAC	2916	93 2KO-1410 500 w.
Hilding Gustafson, 34		Florida	108 VAC	856	61 2BE-1480 100 w.
Roger Anderson, 38		Virginia	105 VAC	1448	48 5MU 500 w.
John Callarman, ??		Illinois	50 VAC	740	20 2AP-1470 Samoa
Ernest R. Cooper, 33		Massachusetts	79	4142	7 KHBC-1490 250 w.
Frank Wheeler, 31		Pennsylvania	21	1725	2 1YA-760
Wayne Heinen, ??		Colorado	18	882	1 KORL-650
Andy Rugg, 60		Quebec	60	1493	-
Rick Carr, 75		Texas	37	1245	-
Ron Musco, 62		Connecticut	26	1045	-
Paul Swearingen, 75		Kansas	21	464t	-
Konstantine Rychalsky, 70		Conn.	12	289	-
Niel Wolfish, 77		Ontario	11	239	-
Don Lynch, 60		Maryland	9	??	-
Earl Higgins, 76		Illinois	7	60	-
Eric Loy, 75		Illinois	3	65	-

t-taped veries; VAC = Verified All Continents; Yr. = year began keeping veries (or DX'ing)  
Welcome back/thanks for updaters to Higgins, Heinen, Rychalsky, Callarman, and Musco. I had to drop eight DX'ers whose totals were at least 18 months old. I'd like to see at least 40 listings in IDXA by the end of the year ... so it was with great reluctance that

I relegated them to the inactive file (and I know that many DX'ers are quite active). My philosophy in keeping this column going is to provide DX'ers with positive proof that international DX does exist ... to give all a goal to shoot for, even though it may just be for the listing just above one's own ... to provide more incentive to stay at the dials to increase one's own veries ... but not to show one's supremacy over the DX'ers at the bottom of the column. Even if you're not for sure that your own records are 100% accurate, why not send in your totals soon? Errors, if any, can always be corrected. For those interested, I keep records on 5x8 cards and would prefer your updaters to be listed (veries only) in the following order: total veries (incl. domestics), total countries (incl. domestics), total foreign veries, North American veries (except domestics), South American veries, European veries, Oceanian veries, African veries, Asian veries; the year you started keeping veries; and your best catch verie (or heard) from each category. Indicate whether you keep taped or paper veries or both. Some contributors have wondered about guidelines for IDXA. These were listed in the November 17 DX News; you may have missed them. A special thanks to Konstantine Rychalsky for copying a letter from Norm Maguire, the former editor, including his guidelines. I would appreciate any suggestions in improving the guidelines, including demarcations between categories and a list of new DX countries. I'll try to update the guidelines and publish them sometime during the slow summer months. I plan on running the second IDXA Hall of Fame sometime this summer, with countries as the qualifier and VAC, then total veries, as the tiebreaker. Next IDXA: South America, with total veries as the tiebreaker; deadline for updaters: April 3.

## NATIONAL BROADCASTERS HALL OF FAME

Located on Main St. in historic Freehold, N.J. is the National Broadcasters Hall of Fame. A visit to the NBHF is a must for any DXer passing thru New Jersey, and if enough interest is shown I'll be able to arrange a group trip during the upcoming convention. Freehold is situated about equidistant from both New York City and Philadelphia and about 1 hour from the convention site.

The NBHF program starts with a 10 minute slide presentation on the history & evolution of radio broadcasting in the U.S. There is a display hall with banks of telephone receivers where one can listen to the Lone Ranger, The Shadow, Amos 'n Andy, news broadcasts, and many other famous broadcasts & historical events. Another section is devoted to the personalities who have been inducted to the hall, again with telephone receivers by each personality like: Walter Winchell, Mel Allen, Edward R. Murrow, Jessica Dragonette and many others. Last but not least are display cases with every imaginable old receiver, radio scripts, old loop antennas, and many artifacts from the early days of radio broadcasting. I had a thoroughly enjoyable time and I strongly recommend a visit to all members. National Broadcasting Hall of Fame 19 W. Main St. Freehold, N.J. 07728  
Elliot R. Straus



19 WEST MAIN STREET, FREEHOLD, NEW JERSEY

16 **UPDATER - UNREPORTED STATIONS**

This chart lists the total number of stations in the USA and Canada and the volume they were last reported as being heard: (thru Vol 48 #15, 2/2/81)

VOLUME #	48	47	46	45	44	43	42	Prior	TOTAL
CANADA	237	77	13	16	6	8	2	42	401
U.S.A.	2348	1065	318	192	95	100	37	409	4564
TOTAL	2585	1142	331	208	101	108	39	451	4965

Additions & deletions to 'unreported stations' list that appeared in DXN V48 #15 (2/2/81) are as follows: (additions are new stn's--deletions were reported this volume #3 thru 15)

- AL--11 Delete: WYAM-1450
- AK--2 Delete: KCAM-790, KRXA-950
- AZ--14 No Change
- AR--12 Additions: KAYR-1060, KBOT-1350, KCTT-1530--Deletions: KBTM-1240, KWFI-1470, KACJ-1510,
- CA--12 Delete: KLOC-920, KWSO-1050, KDAO-1230, KWKW-1300, KOB0-1450,
- CO--8 Add: KMKR-1450--Delete: KGLN-980, KAVI-1320, KVRH-1340, KPUB-1480
- CT--0 No Change
- DE--0 No Change
- DC--0 No Change
- FL--21 Delete: WFXI-930, WKKX-1310, WWKE-1370, WBAR-1460--940 s/be WLQH not WLOH.
- GA--20 Delete: WRIP-980, WPPM-1150, WCLB-1220, WBLJ-1230, WDUU-1240, WHYD-1270.
- HI--0 No Change
- ID--11 Add: KKLB-1450--Delete: KLER-950
- IL--4 No Change
- IN--3 No Change
- IA--4 Delete: KILR-1070, KLEM-1410, KIFG-1510
- KS--6 No Change
- KY--8 Delete: WWXL-1450
- LA--16 Add: KNEK-1190
- ME--2 No Change
- MD--0 No Change
- MA--0 No Change
- MI--10 Delete: WKNR-1400, WQXO-1400, WTCM-1400/580, WWKQ-1500. WHITE-1340 s/be WHITE
- MN--8 Delete: KKOJ-1190, KGHS-1230, KROC-1340, KRWB-1410, KKAQ-1460, KOLM-1520
- MS--23 Delete: WFFF-1360, WMBC-1400, WGLD-1490. WMYO-1410 s/be WMYQ
- MO--13 Delete: KYRO-1280
- MT--16 Delete: KGEZ-600
- NE--7 Delete: KFOR-1240
- NV--1 Delete: KBET-1340
- NH--0 No Change
- NJ--0 No Change
- NM--9 No Change
- NY--3 No Change
- NC--13 Add: WDLV-550, WLTM-1480
- ND--2 Add: KPOK-1340, KHND-1540--Delete: KHRT-1320, KQDJ-1400, KHOL-1410, KNDC-1490
- OH--3 Delete: WYNO-1130
- OK--10 No Change
- OR--6 Add: KLWJ-1090--Delete: KVAS-1230, KFLS-1450
- PA--2 No Change
- RI--0 No Change
- SC--14 No Change
- SD--5 Delete: KUSD-690, KDSJ-980, KJAM-1390

- TN--13 Add: WMUF-1000
- TX--56 Delete: KBUS-1590, KOTI-1130 s/be KQTI
- UT--4 Delete: KRPX-1080, KMTI-1590
- VT--0 No Change
- VA--4 No Change
- WA--10 No Change KCDN-630 s/be KGDN
- WV--11 Delete: WETZ-1330, WHJC-1360
- WI--7 Delete: WCUB-980, WHBY-1230, WCQL-1370, WJJK-1400, WRDE-1400
- WY--6 Delete: KRAE-1480
- AB--1 Delete: OKSA-1080
- BC--14 Add: CHET-1450 CKMP-1240 s/be CKMK
- MB--0 No Change
- NB--3 No Change
- NF--11 No Change
- NWT--0 No Change
- NS--0 No Change
- ON--3 No Change
- PEI--0 No Change
- QU--9 Delete: CFVM-1220, CJMD-1240, CKMG-1340
- SK--1 No Change
- YT--0 No Change

These lists and charts are designed to provide near useless information to those of you trivia buffs who may find them interesting. Perhaps some of you will search the dials and hear and report a few of these. Also it would be helpful if the stations that may be off the air for some time were noted by those of you near enough to verify the fact. DXN reporters have noted the following stations to be, at least temporarily, off the air:

- 900-CJEN-QU (last reported in Vol 43)
- 1090-KLDR-CO ( " " " Vol 48)
- 1290-WDGS-IN ( " " " Vol 45)
- 1310-WBIO-NJ ( " " " Vol 47)
- 1320-KATR-OR ( " " " Vol 46)
- 1330-WPRX-IL ( " " " Vol 47)
- 1490-WLRQ-MI ( " " " Vol 47)
- 1550-WVAB-VA ( " " " Vol 48)
- 1510-KAAR-WA ( " " " ??? )
- 1590-WJRO-MD ( " " " Vol 46)
- 1590-WQIQ-PA ( " " " Vol 48)
- 1570-KXES-CA ( " " " ??? )
- 1400-CKRV-QU ( " " " Vol 42)

I'm curious as to how the few stations in the NRC reporter stronghold of the NE & Mid East have managed to escape being reported in DXN all these years. For instance is WNDI-1550-IN really on the air? Or those in PA & NY that have not made the hallowed pages of DXN for 7 years? 197 of the NRC unreported stations have not appeared in the pages of either DXN or IRCA's DXM since the fall of 1974. They are the real select DX catches, I guess. 73

Don Kaskey



# LOOP ANTENNAS, THEORY AND PRACTICE

Dallas Lankford © 1981

The purpose of this article is to survey the literature on loops and to develop some general guidelines for those who desire to "roll their own." Our discussion is limited to loops for use in the ECB (0.54-1.6 mhz), but many of the formulas and principles also apply to lower and higher frequencies.

We will consider two kinds of loop antennas, air core loops and loops wound on ferrite rods. For air core loops,

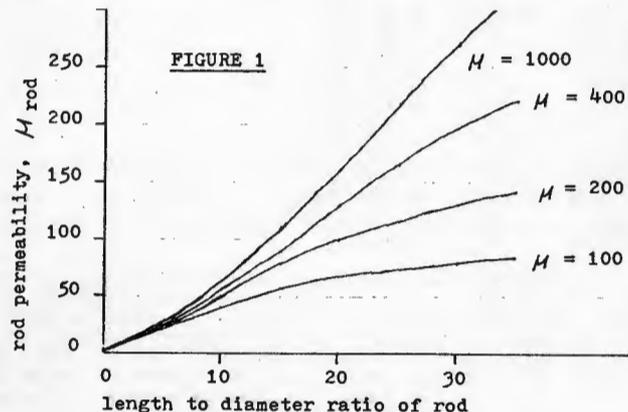
$$V(\text{loop}) = \frac{2\pi AN}{\lambda} V \quad (1)$$

where  $V(\text{loop})$  is the voltage induced in the loop by a passing electromagnetic wave of electric field intensity  $V$  in volts per meter,  $A$  is the area in meters of one turn of the loop,  $N$  is the number of turns, and  $\lambda$  is the wavelength in meters. For ferrite rod loops,

$$V(\text{loop}) = \frac{2\pi AN}{\lambda} \mu_{\text{rod}} V \quad (2)$$

where  $\mu_{\text{rod}}$  is the permeability of the rod.

The permeability of a ferrite rod depends upon the permeability  $\mu$  of the ferrite material from which it is made and the physical dimensions of the rod. For solid rods this relation is shown in Figure 1.



Ferrite rods come in a wide variety of sizes and permeabilities. For example, the Space Magnets (SM-1 and SM-2) have a length to diameter ratio of about 20 and a permeability of about 400, so they have a rod permeability of about 130. Amidon Associates offer a ferrite rod with length 7.5 inches and diameter 0.5 inches with permeability 125, so the length to diameter ratio is 15 and the rod permeability is about 60. The permeability of 125 is typical for most ferrite rods for use in the ECB, especially those commonly found in transistor portables.

Perhaps the most useful measure of loop performance is sensitivity. When a loop is tuned to resonance by a capacitor in parallel with the coil, the output voltage is given by

$$V(\text{out}) = QV(\text{loop}) \quad (3)$$

where  $Q$  is the quality factor of the coil. The thermal noise voltage produced by the loop is

$$V(\text{noise}) = \sqrt{4kTRb} \quad (4)$$

where  $k$  is Boltzman's constant ( $= 1.37E-23$ , where  $E$  is 10 to the  $n$  power),  $T$  is the temperature in degrees Kelvin (nominal room temperature is usually taken as 288),  $R$  is the resistive component of input impedance, and  $b$  is the effective bandwidth in Hertz as seen by the detector. Since  $R$  satisfies

$$R = 2\pi fQL \quad (5)$$

where  $f$  is the resonant frequency in Hertz and  $L$  is the inductance in Henrys, from equations (1) - (5) we can calculate the sensitivity in volts per meter for a 10 db  $(S + N)/N$  ratio as follows. Starting with

$$10 = 20 \log_{10} \left( \frac{V(\text{out}) + V(\text{noise})}{V(\text{noise})} \right) \quad (6)$$

we solve for  $V$  of equation (1) and find

$$V = \frac{1.09E-10 \lambda \sqrt{fLb}}{ANVQ} \quad (7)$$

for air core loops, and

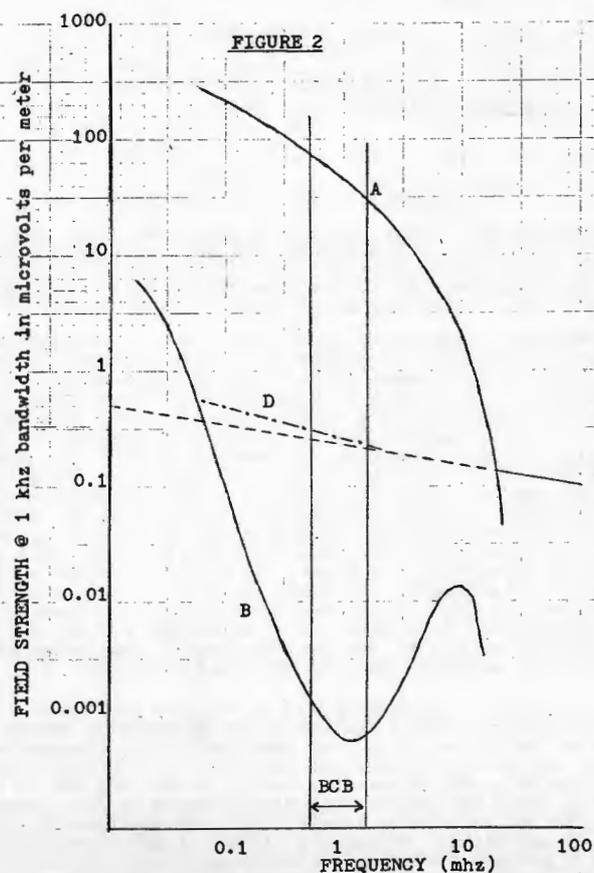
$$V = \frac{1.09E-10 \lambda \sqrt{fLb}}{AN \mu_{\text{rod}} VQ} \quad (8)$$

for ferrite rod loops. Taking  $b = 2.1$  khz,  $L = 300$  microHenrys, and  $Q = 200, 190,$  and  $180$  respectively for the 4' and 2' air core loops and the 12" ferrite rod loop, at 1.54 mhz the sensitivities of the three loops are 0.085, 0.17, and 0.44 microvolts per meter respectively.

The measured sensitivity of the SM-1/SM-2, 3 microvolts per meter, is sufficiently higher to require a brief discussion of the discrepancy between the calculated and measured sensitivities. First of all, the Space Magnets are shielded so that the voltage induced in the loop by a passing electromagnetic wave is half the value given by equation (1) (according to comments in the N.R.C. Antenna Reference Manual). A recalculation of sensitivity gives 0.88 microvolts per meter. Next, we assumed a bandwidth of 2.1 khz as seen by the detector (a reasonable assumption if the loop feeds a good narrow bandwidth receiver such as the HQ180A or R390A). However, if the bandwidth of the loop alone is used for sensitivity calculations, then taking a  $Q$  of 180 at 1.54 mhz we get 1.78 microvolts per meter. We are not certain of the remaining discrepancies between calculated and measured sensitivities, but it may be a combination of inaccuracies in the formulas we have used (which after all are approximations), calibration errors in the test equipment, and losses as a result of the link coupling used in the Space Magnets.

At this point it is appropriate to ask how sensitive a loop should be for state of the art ECB performance. Recent articles by Hutton [1979] and Lankford [1979] discuss noise levels and usable receiver sensitivity, and both are good supplements to our discussion here. As pointed out by Hutton [1979], there is considerable disagreement in the literature as to the minimum noise levels which can be expected in the ECB. In my article on galactic (cosmic) and atmospheric noise I assumed that galactic noise would be the limiting source. However, after subsequent extensive discussions with Chuck, I have modified my view as follows. The CCIR Report [1963] indicates that while cosmic noise is sometimes present in the amounts indicated, at other times ionospheric shielding does take place. So the values of cosmic noise given by the CCIR Report are sometimes (often?) higher than will be experienced in practice. However, even when present at its maximum level, cosmic noise is usually below man-made noise and far below atmospheric (static) noise. The CCIR Report gives values of man-made noise in a quiet location which are

about the same as the (maximum) cosmic noise values, so it would seem that the figures of minimum noise stated in my previous article are about right. But again Hutton [1979] has pointed out that there is also considerable disagreement on levels of man-made noise. To add to the confusion, we have converted the CCIR noise figures to field strength (both by their given formula and their nomogram) and obtained still other values. As Chuck said in his article, minimum noise figures depend upon who you choose to believe. For this article, we choose 0.3 microvolts at 0.54 mhz and 0.2 microvolts per meter at 1.6 khz, which were obtained by extending the galactic (cosmic) noise levels from Figure 5 of Cottony and Jöhler [1952]. These values are our best guess as to minimum values of cosmic/man-made noise in the ECB, see Figure 2.



- A--upper limit of atmospheric noise
- B--lower limit of atmospheric noise
- C--upper limit of cosmic noise
- D--man-made noise at a quiet location

Based on these figures and estimating an actual sensitivity of 0.4 microvolts for the 4' AA loop, it follows that the SM-1/SM-2 leaves some room for improvement. On exceptionally quiet nights it seems likely that the SM-1/SM-2 would miss some very weak DX which the 4' AA loop would catch. However, those instances are rare, and for most DXers, especially those in urban areas who experience higher man-made noise levels, there would almost certainly be no noticeable difference between the two loops' DX catching ability. Also based on these figures, we would guess that on very quiet nights a 100' long wire antenna might occasionally outperform the 4' AA loop. But that, too, would occur at most a few nights a year.

The hypothetical comparisons above are at best educated guesses and at worst may be significantly inaccurate. Listening with my HQ180A at a quiet location near Hainesville, Texas confirms that a 1200 foot beverage sometimes outperforms my home-brew amplified loop (the front end of a Realistic TRF). A few weak signals were readable on the beverage, but inaudible (in some cases not even a het w/BFO) on the loop. Moreover, I almost never hear man-made noise on the loop, while man-made noise is about S3-S6 on the beverage. Still, the loop has been my primary antenna for the last three years, and has given very respectable results. Also, the loop is small, portable, does not require acres of land, and can be used to null local noise sources and QRM. However, claims that a loop, ferrite or otherwise, does not respond to noise are just not true. The fact is that smaller loops are often not sensitive enough to hear background noise (except in a noisy location or on nights of high static levels).

The sensitivity calculations above were done near the top of the ECB because noise levels tend to increase as frequency decreases while loop sensitivity tends to decrease (get better) as frequency decreases. Let us illustrate this point with a calculation of the sensitivity of the (hypothetical) 4' AA loop at 540 khz. In equation (7), everything is constant, except  $\lambda$ ,  $f$ , and  $Q$ . The N.R.C. Antenna Reference Manual states a  $Q$  of about 500 near 540 khz for the 4' AA loop. But if that  $Q$  is used, the 6 db bandwidth will be narrowed to 1.08 khz, too narrow for many listening situations. So let us assume a  $Q$  of 257 which gives a 2.1 khz bandwidth. By simple ratios, we find that the sensitivity at 540 khz is 0.057 microvolts per meter.

If an air core loop is the loop of your choice, the N.R.C. Antenna Reference Manual is the reference you need. There you will find detailed plans for both the 4' AA loop and 2' AA loop. I should add, though, that Hammarlund users will not be able to take advantage of all the nulling capacity of these loops since all Hammarlund receivers (that I have used) exhibit some pickup of powerful locals with no antenna connected. I don't know where the RF pollution is coming from but I suspect a combination of perforated cabinet, antenna binding posts, and pickup via the power cord. Dick Truax has told me that disconnecting the antenna binding terminals on the HQ180(A) (and using only the coax socket) helps, but there is still some RF pollution. However, since most DXing is done at night when most QRM is sky wave, you will seldom be able to get more than about 30 db nulls anyway. So, in my opinion, it is hardly worth the effort to build a large air core loop, especially if you do not live near powerful locals.

The easiest way to get a good ferrite rod loop antenna is to purchase one from Worcester Electronics Laboratory, R.D. 1, Frankfort, N.Y. 13340. The SM-2 is by far the most popular ferrite rod loop used by NA ECB listeners. Write for the current price. If you want to build your own, the Worcester Lab also used to sell a 12" ferrite rod with 400 permeability and 20 length to diameter ratio for about \$5. I bought 4 of these rods several years ago and have rolled a number of loops with them. Amidon Associates, 12033 Otsego St., No. Hollywood, Calif. 91607 also sells a ferrite rod, 7.5" long, 0.5" diameter, permeability 125, part no. R61-050-750. A loop wound on their rod will not be as sensitive as the 12" rod, but as I have said

before, my 7.5" TRF rod is no slouch. In addition, J. W. Miller sells several ferrite rod loops which would be suitable. From personal listening experience, I can tell you that there is just not much difference in signal catching ability between these various rods. For example, in the spring of 1977 I was listening to PORTUGAL 665 on my TRF loop in Austin, Texas when I decided to roll up an unamplified loop on a 5.5" rod. With the unamplified loop, PORTUGAL dropped from S-8 to about S-3, but was still clearly audible (maybe slightly clearer because of reduced distortion products).

Let's get down to the nuts and bolts of loop construction. All you need is a ferrite rod (almost any one will do), some copper wire (about no. 24 to 30), a soldering gun or iron and some rosin core solder, wire cutting pliers, and two el cheapo 365 pf variable capacitors (I picked up a couple from Radio Shack for about a dollar several years ago). The circuit I have used most frequently for unamplified loops is given in Figure 3 below.

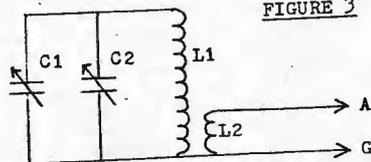


FIGURE 3

Two capacitors are used because the Q of the loop is so high that slow tuning is mandatory. Not wanting to go to a lot of trouble in these experimental set ups, I hit on the idea of removing all but two plates from a 365 pf variable for fine tuning. It works.

When I am testing my homebrew loops, I generally lay the entire apparatus on my desk beside the receiver. Ideally, the experimenter should build some kind of framework in which to install his experimental loops, say with a vernier driven tuning capacitor and a means of tilting the loop, but the breadboard technique (with the desk playing the role of the breadboard) works nicely. Another method of low impedance matching is shown in Figure 4.

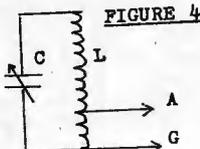


FIGURE 4

The required number of turns to produce an inductance L which allows tuning the entire ECB depends upon a number of factors, such as rod permeability, dimensions of the coil, capacitor range, and extraneous circuit capacitance. The simplest approach is to begin with a coil of about 100 turns and then by trial and error increase or decrease the number of turns until the desired tuning range

is achieved. The coil windings of the Space Magnets are spaced so the coil occupies the full length of the ferrite core. It is said by Grimmett [1954] that it has been determined experimentally that a full length winding gives a better pickup than a concentrated winding at the center. However, coil placement and spacing are not very critical and it is probably a matter of personal preference as to spacing and placement. Belrose [1955] has determined experimentally that the sensitivity of a closely spaced coil is more or less independent of the position of the coil on the rod and that Q increases as the coil is moved towards either end of the rod. Everden [1954] mentions that Q increases with decreasing wire size suggesting that there may be some advantage in winding the coil with 9/40 litz wire. The increased Q also results in increased output voltage. Another effect mentioned by both Everden [1954] and Grimmett [1954] is that Q is decreased when the coil is wound directly on the ferrite rod. Grimmett [1954] says that the Q increases rapidly as the separation of the core winding from the rod increases up to about one wire diameter, and then decreases slowly. However, a table in Everden [1954] suggests that Q increases as the coil diameter is increased to about 150% of the rod diameter and then decreases slowly thereafter. I have tried a number of different coil configurations but have noticed no difference in "hearability."

An interesting point raised by Grimmett [1954] is that ferrite rods of the 1950's could be shifted as much as 20% in effective permeability just by tapping the rod on a table. It was at first believed that this shift was caused by the earth's magnetic field,

but later believed to be due to molecular instability. The shift was reduced to less than 1% by vibrating the cores during manufacture. Grimmett [1954] mentioned that newer materials were becoming available which do not exhibit vibrational shift. Because of the possibility of vibrational shift it is probably advisable for experimenters to avoid use of old or surplus ferrite rods of unknown origin.

After this article was almost completed we came across two articles concerning cosmic noise in the ECB. In Reber and Ellis [1956] the results of observations on 2130, 1435, 900 and 520 khz are reported. The observed intensity of cosmic radiation was approximately that reported in our Figure 2. At night, cosmic radiation was observed on almost every night on 2130 khz, about one in every six nights on 1435 khz, and about one in every 25 nights on 900 and 520 khz. The cause of the irregular appearance and disappearance of cosmic noise was attributed to ionospheric shielding, though other explanations are possible. The measurements were taken at Hobart, Tasmania during 1955 and it is not certain if these observations apply to other geographic locations. Cosmic noise observations below 10 mhz are also reported in Ellis [1957].

Two of the very best theoretical articles on ferrite loop antennas for the ECB are van Suchtelen [1952a,b]. Additional very useful information is found in Everden [1954] and Grimmett [1954]. The article by Belrose [1955], though primarily for low frequencies (80 - 200 khz), is also useful. Most or all of these articles should be available at a good university library, or, if not, they can be ordered through the interlibrary copying service. Check with your librarian.

In this article we have considered only the sensitivity aspect of loop antenna design and construction. Other important factors in loop design include the quality of the loop null, the loop output voltage, and getting the loop output into your receiver. The subject of loop null quality has been discussed in detail by Nelson [A-13, A-14] and also in the N.R.C. Antenna Reference Manual. For exceptionally deep nulls, a balanced loop is required. But for nighttime listening, since most received signals are elliptically polarized and deep nulls can therefore not be obtained, an unbalanced loop is seldom a drawback. Loop output voltage and getting the loop output into your receiver are interdependent. A loop functions as a parallel tuned circuit which is a high impedance device, while most receivers' antenna inputs are low impedance. So some kind of impedance matching, usually link or tap coupling, is required. For example, a Space Magnet of 100 turns having a Q of 180 will develop a voltage of 24.7V (where V is the signal strength) at 1.54 mhz, while the voltage developed across a 3 turn link coupling is 0.74V. Taking a weak DX signal of 3 microvolts per meter, the signal available to your receiver is 2.22 microvolts. For some receivers, such as the HQ180A or R390A, that might be adequate, but for less sensitive receivers amplification of the loop output may be desirable. The only way to be sure is to wind your loop and try it with and without an amplifier. In my opinion, an amplified loop is mandatory for daytime listening (here a large air core amplified loop is state of the art), while at night a good sensitive receiver may give excellent results with an unamplified loop. A discussion of amplifiers suitable for use with loops is beyond the scope of this article, see, for example, the N.R.C. Antenna Reference Manual and Hagan [A-39].

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#### ADDENDA

Two important aspects of ferrite loop design which we overlooked are choice of ferrite material and tangential loss. Different ferrite materials are used for different frequency ranges, so the prospective loop builder should avoid ferrite cores of unknown origin and make sure to use ferrite rods which are made for the ECB (or whatever frequency range he desires). Tangential loss is a complex subject, see van Suchtelen [1952a,b]. The amount of tangential loss of a ferrite material determines the maximum Q of a loop wound on a rod of that material (and therefore effects the sensitivity and output voltage of the resultant loop). As a general rule, older ferrite rods will have higher losses while newer rods will have lower losses (and higher Q's and sensitivities). So the home brewer is well-advised to use recently manufactured ferrite rods.

A few words are also in order concerning possible sensitivity improvements over the loops considered in this article. Since tuning is generally done with a 365 pf variable capacitor, if the entire ECB is to be tuned, then the only variables in equations (7) and (8) are A, N, Q, and  $\mu$  (assuming a 2.1 khz bandwidth). The 4' air core loop is probably about as large as most DXers would want to undertake, and it is likely that mechanical instability could become a problem for larger loops.

continued bottom page 25

# CONTESTS

JOHN KROMKA  
P. O. BOX 86  
MONTVILLE, NJ 07045

Hello, once again, and welcome to yet another edition of CONTESTS:

Earl Higgins	189
Mike Jeziorski	180
Nancy Hardy	116
Bob Curtis	100 tie
Ray Barno	100
Albert Edwards	98

Well, those are the results of Contest #4. An exciting finish this time with Earl Higgins beating his illustrious foe by just 9 stations! Congratulations, Earl, you are the recipient of your choice of \$3.00 worth of reprints. By his win, Earl stretches his lead in the Grand Prize Race, but I don't think Mike is going to let him win lying down, are you Mike? By the way, a warm welcome goes to Albert Edwards of Hawaii, a first-timer to Contests. Participate often, Al.

CONTEST #5: STATIONS WITH THE SAME DAYTIME AND NIGHTIME POWER ONLY.

Winner will be determined by who can positively identify and log the most stations under this restriction in the allotted time. The Contest is rather self-explanatory. Stations submitted as entries must conform to the latest edition of the Domestic Log, and its updaters. When submitting your entry include particulars such as date, time, frequency, station, location, and a little program content. Hope it proves to be a fun Contest for all. I look forward to the entries.

Date: Any one or several, your decision.

Time: You can split the time up in any way you desire, but total time for participation must not exceed four(4) hours.

Deadline for Entries: March 14, 1981-Please note that this is an earlier deadline date for this Contest as compared to previous ones. If you receive your 3/2 bulletin on time this allows you about a week to participate, which is, I hope, enough time for you to participate in this Contest. I will not accept entries that I receive after March 14. Too many participants in the past are waiting to the very last second to send me their entries, and many times this year I have counted entries received after the deadline, but in fairness to those who send me their entries on time I feel I cannot do this anymore. Don't hate me, hi, I just felt that I had to point this out. Prize: To the winner of this Contest (except Earl Higgins) goes \$3.00 worth of any reprints. I must exclude you Earl, keeping in accordance with the "one winner per contest" policy, as far as prizes go. Good Luck to Everybody!

#### GRAND PRIZE RACE

Earl Higgins	47
Mike Jeziorski	39
Bob Curtis	12
Nancy Hardy	9
Paul Mount	9
Bill Regan	7
Eric Loy	5
Bill Conti	3
Ray Barno	1
Albert Edwards	0

Go get 'em!

J.K.

continued from page 24

Even with the 4' loop a Q reducing variable resistor must be added in parallel with the loop to keep the bandwidth above 2 khz at the low end of the ECB. Thus the sensitivity as given by equation (7) is limited by Q limitations as a result of bandwidth limitations. For ferrite rod loops, Q limitations are usually a result of tangential loss rather than bandwidth limitations, so that increasing sensitivity requires a larger ferrite rod. Radio West has offered a 22" rod, but I do not know if any ECB DXers have constructed loops from that rod or if significant improvements in sensitivity would result.

Permission is given for the National Radio Club to copy and/or otherwise use all or parts of this article.

PLAYING THE

# VERIFICATION GAME

WAYNE HEINEN  
427 E. CARAMILLO ST.  
COLORADO SPRINGS, CO 80907  
(303) 632-3332

540 KNMxl	Alfredo D. Rael GM	WH	1350 KTLQr	Jim Masters	WH
550 KSDl	Paul Donahue CE	MC	KDIOlm	Dick Schultz	JF
590 WEBIq	L.F. Conti CE	ERC	WCWRl	Donald K. Clark VP/GMDS	
600 CUBAql	F. Miranda Dept of Int'l Relations	MC	1370 WKJFpm	J.E. MacFarlan GM	JF
610 CKTBlu	Bob Johnston OpM	DS	KSUMp	Clint Knapp TSU	JF
630 WPROl	Philip Harris CE	JF	CFOKl	Allan O Holmberg EngDir	
640 RADIKa	Miss Chitra Radhakishun le	RC	1390 WGWYlmbh	David Huva CE	KG
730 CKDMqu	u/u	RC	1400 WSJMp	u/u GM	JF
740 WFTHl	John C. Erwin SM	KG	1410 KRIGpu	Wally Tach GM	RC
910 KLCNfmu	Richard Duncan CE	JF	1430 KARMpu	S. E. Dean CE	WH
CHRLr	Germain Galmour OP	RA	1440 KSKXl	R. A. Roiseland CE	WH
920 WGNUl	Charles Geer PD	WH	1450 KNETqmb	Ben. Burlison Jr.	DS
KYFRlm	Carl E Gluck M/CE	JF	WIINqx	u/u	DS
930 WKXYlmb	Jim Grant CE	RC	WMPTl	Victor Michael Jr CE	DS
WKYq	u/u	MC	WEYZl	JJ Sanford PD	DS
940 WCNDlm	Dean Hardin GM	RC	WMASl	D. J. Dornfeld TD	ERC
KMGXlm	Scott M. Hower CE	RC	WMOHpu	Steven D. Crum	
KVSHpu	Ed Haen CE	RC	KSNYl	Perry Westmoreland	WH
CJGXqu	Harry Kerr E	JF	1460 WAKSlmh	Jim Butts VP/GM	KG
WKGMPm	Larry Cabb GM	JF	1470 WTKQpmu	Mathew Pule CE	JF
WFNCl	Paul Michaels OpM	MC	1480 WWKOlh	Randy Galliher PD	KG
950 WCTNm	D. Hurd CE	JF	KEHGLmu	Dennis Roux MxD	JF
970 KJLTL	John G. Townsend CE	WH	1490 WDURL	James W. Davis Con E	KG
WFUNplm	C.M. Johnson OpM	JF	WWILLh	Charles Lewis CE	KG
1000 WYOKl	Sandi Brinson	RC	WQXQl	Janet Lee O'ConnorTrfM	ERC
WKYBqm	Faye Miller		CFPSl	David R. Gillard DoE	JF
WVOVl	Larry Meek SM	ERC	1500 WDEBl	Gunther Muhsemann	RC
1060 WKKQLmb	Jerry Collins GM	MC	1510 KDJQlb	R.A. VanBuhler CE	KG
1070 WKDRI	Charles Stone PD	MC	WKAOlB	Nancy Ellis	
WINAlb	Kemp Miller PD/DJ	MC	1520 WIBGp	Mrs Neely D. Crowley Sales Mgr	ERC
1080 WCIIlm	Bruce Clark CE	RC/KG/DS	WKMG pmu	Roscoe Bedenbaugh	JF
1100 WLEBB	u/u	JF	1540 KLKCl	Gary Cantrell CE	WH
1110 WVNHCm	Richard Lang GM	RA	WANLpu	Ben L. Losser M	JF
1130 WCXIl	Phil Rogers CE	JF	WNIOPlum	Gary Zoccolo PD	JF
WNEWqm	Fredrick Moore	JF	WRSGLm	Art Sutton OpM	JF
1140 KMJJl	Joe Sands CE	WH	WSMll	Brian Talley CE	WH
1150 KDQQpu	u/u GM	WH	KGBCr	Mary Sullivan TrfM	WH
WSNwf	Herbert Hosea CE	JF	1550 KHBjlb	Jack Auldridge P	RC
1170 XEESln	Omar Bejar Gomez GerRC	RC	WCCZl	Erian E. Tolby P	KG
4VRS	Rev Raymond Conard	RC	WTTCCm	Jack Baker GM	RA
1190 WBDYc	Aubrey Garber P	KJ	1560 WTODpuh	Michael Stutzman PD	RC
fm	Michael Brown SM	DS	WSNVl	Troy D. Spencer CE	HH
WJESp	Mike Casey CE	JF	WMICpmu	Bob Armstong CE	JF
1230 KSIXlum	Vivian Mitchell OP	RC	1570 CHLOlum	John L Moore P/GM	RC
WHSYlulb	Harold Stanton CE	RC	KMYZlmb	Brad Oleson GM	RC
CKMPl	Gary Green PD	MC	WLDMI	Cele Hahn VP	KG
1240 KXOXpu	E. Ray TD	RC	WKOLl	John Hussey CE	RA
WINNf	M.C. Scarsdale CE	DS	1580 WILApum	Mamie E Townes Sec	JF
1250 KBRFl	Harry Hammond CE	WH	1590 WPLWpm	Thom Hickling GM	JF
WXOXplum	Bob Friedle CE	JF	WJSOl	Rose Cobb	RA
1260 WUFEl	Larry D. Ring CE	KJ	KXEWlm	Bob Feinman SalesM	RC
WKXWru	W.A. Musser GM	DS	WGOEq	Jim Grainger CE	DS
1270 WTJZl	Andy Booth CE	KG	WAIKl	Rick Heath OpM	RC
1280 WIXIpu	Cebbie Benedict SM	RC	1600 WAAMPu	u/u CE	RC
KRZEl	Ovie Cowles PD	WH	1610 WXT-613	Ted Bushelomen CE	HH
WCPMlp	Jack Mills GM	ERC	Contributors to the column.....		
1300 WQBKf	Richard Dalbes CE	ERC	MC-	Mike Csorbay(ON)	
WKCYpu	Oliver M Voit CE	JF	ERC-	ERC (MA)	
1310 WSSJlm	Steve Apel OpM	KG/DS	DS-	DDXD ED (DE)	
CHGBln	Maurice Levesque Dir des emissons	JF	JF-	Jeff Falconer (ON)	
KNOXpquh	R. Levandowski Jr CE	CE	RC-	Rick Carr (TX)	
1340 KIKOlM	A.R. Michaels	RC	KG-	Kermit Geary (PA)	
f	Willard Showcraft O/M	DS	RA-	Ray Arruda (MA)	
WCMilm	Scott Hensley CE	DS	KJ-	Karl Jeter (GA)	
Charles D. Rees VP/CE			HH-	Hank Holbrook (MD)	
KKITl	Jacob miller OpSu	WH	WH-	Wayne Heinen (CO)	

Another round for all you verifying enthusiasts! In the miscellaneous department it would be appreciated if all contributors would sign their contributions, one had a name on the envelope only and the envelope was used to start a fire in the stove before I realized that the sheets inside weren't signed. Also please list the frequency as well as the call and v/s. My cross referencing requires it and it is very time consuming to check the frequencies of all the stations. I DO NOT try to correct what is sent in, only Frank Merrill, George Greene etc. have complete up to date call letter references stored in their heads (HI) All corrections will be printed in the following v/s list with the data changed underlined, so if you see a mistake please let me know.

Errata: TNX to Kermit Geary and Hank Holbrook for the following TIS addresses:

Gatlinburg Information Radio	Gettysburg Nat'l Park Radio
Patrick J. Callan Exec. Dir.	John B. Arnold Supervisor
Chamber of Commerce	US Dept. of the Interior
520 Parkway	National Parks Service
Gatlinburg, TN 37738	Gettysburg Nat'l Military Park
	Gettysburg, PA 17325

From an unsigned contributor: Reports for CBN-640, CBNM-740, CBT-540, CBGY-750, CBNA-600 should all be sent to:

Newfoundland Regional Engineer  
Mr. F.H. Holm  
PO BOX 12010  
Postal Station "A"  
Kemount Road  
St. Johns, Newfoundland A1B 3T8

By the turn out of holdouts, I've determined that most DX'ers have a 100% verification rate... so send them in for our next column.....

From Mr. Rick Carr:

WABS, KCHR, WGTL, KIXZ-940, WOKS, WTKY, CFTR-680

From Mr. Karl Jeter

KPBC-1040, WYHI-1570

From Mr. Wayne Heinen

KRZY-1450, KACY-1430, KAAM-1310, KGAK, 1330, KOH-630

The "How I count my verifications" questionnaire:

1. Would YOU start a new verification count if you were to move?
2. Do YOU count call changes of existing stations as new? (ie WWWE ex WKYC)
3. Do YOU count changes in frequency as new? (ie CHLO-1570 ex 680)
4. Do you count changes in City of License as new? (KRGO Salt Lake to Granger UT)
5. Do you count Re-issued calls as new (WRYT-1250, WRYT - 950)
6. Do YOU count changes in facilities as new? (KSOP D-1 to KSOP U-2)

Any and all NRC'ers wishing to comment on the above 6 questions send your answers to me. We'll give it a few months and compile some figures on how the verifying NRC counts there verifications.

Please continue the fine support of our veri signers... example...

ERC had two holdouts that would have been included with this column BUT BOTH have sent hbm veries due to some work and communication by other NRC'ers. Helping each other with information is the living NRC

73

WAYNE

# GRAVEYARD DX ACHIEVEMENTS

BILL BERGADANO  
39 MARBLE ST.  
STATEN ISLAND, NY 10314

Thanks to all who came thru with 1340 stuff. Kept my mailman and myself happy! hi. Got 1 or 2 favorable letters on how I ran Norm's 1230/40 stuff, and I'll do the same here, in alphabetical order. And, with my bottle of "White-Out", in hand, I present 1340.

Firstly, Norm Maguires 1340 stations:

WSGN/Birmingham, Al. 1100 miles  
WJOL/Florence, Al. 1040 miles  
KWFC/Hot Springs, Ar. 740 miles  
KPRE/KARM/Fresno, Ca. 720 miles  
KSRO/Santa Rosa, Ca. 890 miles  
KCRN/Trinidad, Co. 200 miles  
WROD/Daytona Beach, Fl. 1015 miles  
WLAK/Lakeland, Fl. 1055 miles  
WJCM/Sebring, Fl. 1095 miles  
WBGE/Atlanta, Ga. 1275 miles  
WGAA/Cedartown, Ga. 690 miles  
WDAK/Columbus, Ga. 805 miles  
WSAV/Savannah, Ga. 670 miles  
KLLB/Estherville, Ia. 815 miles  
KGNO/Dodge City, Ks. 395 miles  
KSEK/Pittsburg, Ks. 1145 miles  
WLBK/Bowling Green, Ky. 1120 miles  
KVOL/Lafayette, La. 1265 miles  
WEEM/Fitchburg, Ma. 1900 miles  
WFDF/Flint, Mi. 530 miles  
WLAV/Grand Rapids, Mi. 635 miles  
WDMJ/Marquette, Mi. 720 miles  
KWLM/Wilmor, Mn. 1065 miles  
WJPR/Greenville, Ms. 1120 miles  
KHMO/Hannibal, Mo. 835 miles  
KWOS/Jefferson City, Mo. 1000 miles  
KWOC/Poplar Bluff, Mo. 970 miles  
oops, next one should precede KWOC-  
KXCO/Mexico, Mo. 820 miles  
KFGT/Fremont, Ne. 650 miles  
KSID/Sidney, Ne. 455 miles  
WVID/Atlantic City, NJ. 165 miles  
KNDE/Aztec, NM. 160 miles

KVSF/Sante Fe, NM. 1790 miles  
WMBO/Auburn, NY. 300 miles  
WEER/Bufalo, NY. 310 miles  
WGNI/Wilmington, NC. 570 miles  
WETM/Wilson, NC. 490 miles  
WATG/Ashland, Oh. 1350 miles  
WITV/Steubenville, Oh. 1420 miles  
KHHN/Hugo, Ok. 615 miles  
KUTN/Grants Pass, Or. 1045 miles  
WFBG/Altoona, Pa. 300 miles  
WSAJ/Grove City, Pa. 370 miles  
WJAC/Johnstown, Pa. 330 miles  
WTEL/WHAT/Philadelphia, Pa. 155 miles  
WRAW/Reading, Pa. 125 miles  
WBRE/Wilkes-Barre, Pa. 165 miles  
KJUV/Huron, SD. 640 miles  
WBAG/Cleveland, Tn. 775 miles  
WKRM/Columbia, Tn. 835 miles  
WGRV/Greenville, Tn. 645 miles  
WJTS/Jackson, Tn. 975 miles  
KFPD/Dublin, Tx. 1500 miles  
KFRO/Longview, Tx. 705 miles  
KFYO/Lubbock, Tx. 1640 miles  
KVKN/Monahams, Tx. 325 miles  
KPDN/Pampa, Tx. 1540 miles  
KRRV/Sherman, Tx. 1365 miles  
WHAP/Hopewell, Va. 1595 miles  
WJMA/Orange, Va. 1545 miles  
WGH/Newport News, Va. 1665 miles  
WEPH/Martinsburg, Wv. 290 miles  
WBRW/Welch, Wv. 1475 miles  
WKJB/Mayaguez, P.R. 1645 miles  
CJOB/Winnipeg, Mb. 1185 miles  
CKFI/St. Francis, Ont. 1100 miles

Now, everyone else's 1340 stuff: (pre-'60)

Station/QTH	DXer/QTH	Miles
WKUL/Cullman, Al.	Don Kaskey/Omaha, Ne.	700
WGWC/Selma, Al.	Gene Allen/Vallejo, Ca.	2040
WFEB/Sylacauga, Al.	Gene Allen/Vallejo, Ca.	2050
KLBH/Seward, Al.	Gene Allen/Vallejo, Ca.	2600
KCLS/Flagstaff/Az.	Don Kaskey/Galva, Ia.	1005
KRUX/Glendale, Az.	Pete Taylor/Honolulu, Hi.	2875
	((C.G. Cutter Winnebago)	
KCRJ/Jerome, Az.	Charles Martin/Springfield Gdns, NY. 2075	
KNOG/Nogales, Az.	Don Kaskey/Galva, Ia.	1155
KENT/Prescott, Az.	Gene Allen/Vallejo, Ca.	605
KGNA/Tucson, Az.	Don Kaskey/Galva, Ia.	1115
KBTA/Batesville, Ar.	Don Kaskey/Galva, Ia.	525
KBRS/Springdale, Ar.	Don Kaskey/Galva, Ia.	455
KENL/Arcata, Ca.	Gene Allen/Vallejo, Ca.	215
KAVE/Lancaster, Ca.	Don Kaskey/Galva, Ia.	1340
KWSH/Mt. Shasta, Ca.	Gene Allen/Vallejo, Ca.	230
KSFE/Needles, Ca.	Don Kaskey/Omaha, Ne.	1105
KMCA/Oroville, Ca.	Hank Holbrook/Chevy Chase, Md.	2370
KCMJ/Palm Springs, Ca.	Don Kaskey/Galva, Ia.	1290

KPRK/Sacramento, Ca.	Charles Martin/Springfield Gdns, NY. 2520
KWNS/San Luis Obispo, Ca.	Don Kaskey/Galva, Ia. 1435
KDST/Santa Barbara, Ca.	Don Kaskey/Omaha, Ne. 1370
KHUB/Watsonville, Ca.	Stan Mores/Bradford, Ma. 2500
KFUP/Denver, Co.	C. Martin/Springfield Gardens, NY. 1605
KFXJ/Ridgewater, Co.	C. Martin/Springfield Gardens, NY. 1725
KGLN/Glenwood Spngs, Co.	Gene Allen/Vallejo, Ca. 815
KDMR/Lamar, Co.	Gene Allen/Vallejo, Ca. 1080
KVRH/Salida, Co.	Gene Allen/Vallejo, Ca. 890
WNHC/New Haven, Ct.	C. Martin/Springfield Gardens, NY. 100
WICH/Norwich, Ct.	C. Martin/Springfield Gardens, NY. 125
	(yep, C. Martin is Charles Martin)
WOOE/Washington, D.C.	Don Kaskey/Galva, Ia. 995
WDSE/Lake City, Fl.	Gene Allen/Vallejo, Ca. 2340
WGAU/Athens, Ga.	Don Kaskey/Galva, Ia. 890
WBBQ/Augusta, Ga.	Don Kaskey/Omaha, Ne. 940
WMLT/Dublin, Ga.	Don Kaskey/Omaha, Ne. 940
WWSL/Tifton, Ga.	Gene Allen/Vallejo, Ca. 2250
KGEM/Boise, Id.	Gene Allen/Vallejo, Ca. 505
KPSE/Preston, Id.	Gene Allen/Vallejo, Ca. 625
KHLI/Twinfalls, Id.	Don Kaskey/Galva, Ia. 960
WSOY/Decatur, Il.	Gene Allen/Vallejo, Ca. 1800
WKBS/Galesburg, Il.	C. Martin/Springfield Gardens, NY. 865
WJPF/Herrin, Il.	Gene Allen/Vallejo, Ca. 1810
WJOL/Joliet, Il.	Gene Allen/Vallejo, Ca. 1840
KBW/Bedford, In.	Don Kaskey/Galva, Ia. 540
WTRC/Elkhart, In.	Gene Allen/Vallejo, Ca. 1940
WJAK/Marion, In.	C. Martin/Springfield Gardens, NY. 710
WLBC/Muncie, In.	C. Martin/Springfield Gardens, NY. 535
WBOW/Terre Haute, In.	C. Martin/Springfield Gardens, NY. 680
KPGR/Boone, Ia.	C. Martin/Springfield Gardens, NY. 1000
KWCR/Cedar Rapids, Ia.	C. Martin/Springfield Gardens, NY. 925
WREK/Clinton, Ia.	Gene Allen/Vallejo, Ca. 1715
KFJY/Ft. Dodge, Ia.	C. Martin/Springfield Gardens, NY. 1035
KCKM/Kansas City, Ks.	Gene Allen/Vallejo, Ca. 1500
WKML/Ashland, Ky.	Gene Allen/Vallejo, Ca. 2150
WKIC/Hazard, Ky.	Pete Taylor/Durham, NC. 250
WLEX/Lexington, Ky.	Don Kaskey/Galva, Ia. 655
WNBS/Murray, Ky.	Don Kaskey/Galva, Ia. 505
WEKY/Richmond, Ky.	Don Kaskey/Bryan, Tx. 845
KRMD/Shreveport, La.	Gene Allen/Vallejo, Ca. 1660
WFAU/Augusta, Me.	C. Martin/Springfield Gardens, NY. 295
WGAW/Gardner, Ma.	Gene Allen/Vallejo, Ca. 2670
WNBB/New Bedford, Ma.	C. Martin/Springfield Gardens, NY. 190
WERK/Pittsfield, Ma.	C. Martin/Springfield Gardens, NY. 140
WCSR/Hillsdale, Mi.	Frank Wheeler/Erie, Pa. 230
WEXL/Royal Oak, Mi.	Gene Allen/Vallejo, Ca. 2090
WEVE/Eveleth, Mn.	Don Kaskey/Omaha, Ne. 460
KVOE/Moorhead, Mn.	Gene Allen/Vallejo, Ca. 1440
KROC/Rochester, Mn.	Gene Allen/Vallejo, Ca. 1610
WCHI/Columbus, Ms.	Gene Allen/Vallejo, Ca. 1930
WKOZ/Kosciusko, Ms.	Don Kaskey/Galva, Ia. 740
WAMB/Laurel, Ms.	Gene Allen/Vallejo, Ca. 1935
KGBK/St. Joseph, Mo.	C. Martin/Springfield Gardens, NY. 1075
KLCK/Springfield, Mo.	Gene Allen/Vallejo, Ca. 1575
KCAP/Helena, Mt.	Don Kaskey/Omaha, Ne. 880
KGEZ/Kalispell, Mt.	C. Martin/Springfield Gardens, NY. 2050
KPRK/Livingston, Mt.	Gene Allen/Vallejo, Ca. 810
KPRK/Miles City, Mt.	Pete Taylor/Durham, NC. 1650
KBTK/Missoula, Mt.	Gene Allen/Vallejo, Ca. 745
KGCE/Wolf Pt., Mt.	C. Martin/Springfield Gardens, NY. 1705
KGFV/Kearny, Ne.	C. Martin/Springfield Gardens, NY. 1320
KELK/Elko, Nv.	Gene Allen/Vallejo, Ca. 395
KORK/Las Vegas, Nv.	Don Kaskey/Omaha, Ne. 1055
KATO/Reno, Nv.	Don Kaskey/Omaha, Ne. 1250
WKAU/Baconia, Nh.	C. Martin/Springfield Gardens, NY. 250
KVER/Albuquerque, Nm.	Don Kaskey/Galva, Ia. 800
KSIL/Silver City, Nm.	Don Kaskey/Galva, Ia. 980
WENT/Groversville, Ny.	C. Martin/Springfield Gardens, NY. 175
WNSA/Massena, Ny.	C. Martin/Springfield Gardens, NY. 315
WALL/Middletown, Ny.	Frank Wheeler/Erie, Pa. 295
WIRY/Plattsburg, Ny.	C. Martin/Springfield Gardens, NY. 285
WJRI/Lenoir, Nc.	Don Kaskey/Omaha, Ne. 855
WOKF/Oxford, Nc.	Frank Wheeler/Erie, Pa. 415
WHED/Washington, Nc.	Gene Allen/Vallejo, Ca. 2530
WAIR/Winston-Salem, Nc.	Don Kaskey/Omaha, Ne. 925
KGPC/Grafton, Nd.	Dan Phillips/Cookeville, Tn. 1070
WIZE/Springfield, O.	Gene Allen/Vallejo, Ca. 2065

KOGY/Oklahoma City, Ok.	Gene Allen/Vallejo, Ca.	1390
KBNB/Bend, Or.	Gene Allen/Vallejo, Ca.	420
KRUL/Corvallis, Or.	Don Kaskey/Omaha, Ne.	1390
KIHR/Hood River, Or.	Stan Morss/Bradford, Ma.	2400
KMED/Medford, Or.	C. Martin/Springfield Gardens, NY.	2470
KFIR/North Bend, Or.	Don Kaskey/Omaha, Ne.	1445
WCVI/Connellsville, Pa.	Don Kaskey/Omaha, Ne.	860
WGAL/Lancaster, Pa.	C. Martin/Springfield Gardens, NY.	135
WKRZ/Oil City, Pa.	Don Kaskey/Omaha, Ne.	840
WBAN/Charleston, SC.	Gene Allen/Vallejo, Ca.	2400
WRHL/Rock Hill, SC.	Don Kaskey/Omaha, Ne.	680
WFIG/Sumter, SC.	Gene Allen/Vallejo, Ca.	2360
KRSD/Rapid City, SD.	Ralph Sperry/Fairfield, Ct.	1400
WKGK/Knoxville, Tn.	Gene Allen/Vallejo, Ca.	2130
WJHM/Memphis, Tn.	Gene Allen/Vallejo, Ca.	1810
WOBT/Union City, Tn.	C. Martin/Springfield Gardens, NY.	795
WGDT/Winchester, Tn.	Frank Wheeler/Erie, Pa.	575
KWKC/Abilene, Tx.	C. Martin/Springfield Gardens, NY.	1535
KAND/Coriscana, Tx.	Gene Allen/Vallejo, Ca.	1525
KDAH/El Paso, Tx.	C. Martin/Springfield Gardens, NY.	1895
KNAF/Fredericksburg, Tx.	Don Kaskey/Omaha, Ne.	790
KPFM/Greenville, Tx.	C. Martin/Springfield Gardens, NY.	1320
KRBA/Lufkin, Tx.	Don Kaskey/Galva, Ia.	790
KOLE/Port Arthur, Tx.	Gene Allen/Vallejo, Ca.	1730
KTXL/San Angelo, Tx.	Gene Allen/Vallejo, Ca.	1330
KVIC/Victoria, Tx.	Gene Allen/Vallejo, Ca.	1600
KSUB/Cedar City, Ut.	Norm Maguire/E. Hartford, Ct.	2100
(whoops, that one slipped in by mistake, hi)		
KJAM/Vernal, Ut.	Don Kaskey/Galva, Ia.	740
WTWN/St. Johnsbury, Vt.	Frank Wheeler/Erie, Pa.	430
KXRO/Aberdeen, Wa.	C. Martin/Springfield Gardens, NY.	2490
KPRW/Pasco, Wa.	Ron Schiller/Avenel, Nj.	2700
KAPA/Raymond, Wa.	Hank Holbrook/Chevy Chase, Md.	2370
KREM/Spokane, Wa.	Gene Allen/Vallejo, Ca.	715
KWNW/Wenatchee, Wa.	Norm Maguire/Albuquerque, NM.	1110
(blew another one!)		
KLE/Yakima, Wa.	C. Martin/Springfield Gardens, NY.	2275
WJLN/Montgomery, Wv.	Gene Allen/Vallejo, Ca.	2230
WEMP/Milwaukee, Wi.	Gene Allen/Vallejo, Ca.	1840
WFHR/Wis Rapids, Wi.	Gene Allen/Vallejo, Ca.	1455
KOWB/Laramie, Wyo.	Gene Allen/Vallejo, Ca.	925
KWOR/Worland, Wyo.	C. Martin/Springfield Gardens, NY.	1725
KCDA/Victoria, BC.	Don Kaskey/Omaha, Ne.	1430
(remember-don't use too much white-out*).(or you get messy!)		
CKOM/Saskatoon, SA.	Gene Allen/Vallejo, Ca.	1250
XEAA/Mexicali, BCN.	Gene Allen/Vallejo, Ca.	545
These should've been in Norm's 1340 totals before:		
KYAP/Ruidoso, NM.	/Albuquerque, NM.	125
KOME/Tulsa, Ok.	/E. Hartford, Ct.	1295
KSUB/Cedar City, Ut.	/E. Hartford, Ct.	2100

Ahem, now for post-'601, (sorry for any smudges, but my eyes get tired easy).

WKUL/Cullman, Al.	Steve Francis/Alcoa, Tn.	220
WIOE/Florence, Al.	Robert Kramer/Chicago, Il.	490
WFEB/Sylacauga, Al.	Robert Kramer/Chicago, Il.	615
KIKO/Miami, Az.	Gene Allen/Vallejo, Ca.	725
KPGE/Page, Az.	Rick Carr/Bloomington, Il.	1250
KENT/Prescott, Az.	Don Kaskey/Sacramento, Ca.	575
KBTA/Batesville, Ar.	Wayne Heinen/Colorado Spngs, Co.	760
KZNG/Hot Springs, Ar.	Carl Dabelstein/Lincoln, Ne.	470
KBRS/Springdale, Ar.	Don Davis/Warner Robins, Ga.	640
KATA/Arcaata, Ca.	Don Kaskey/Sacramento, Ca.	220
KWKY/Cathedral City, Ca.	Gene Allen/Vallejo, Ca.	455
KMAK/Fresno, Ca.	Gene Nix/Billings, Mt.	825
KDOL/Mojave, Ca.	Gene Allen/Vallejo, Ca.	310
KORV/Oroville, Ca.	Don Kaskey/Sacramento, Ca.	130
KATY/San Luis Obispo, Ca.	Don Kaskey/Sacramento, Ca.	235
KIST/Santa Barbara, Ca.	Don Kaskey/Sacramento, Ca.	310
KOMY/Watsonville, Ca.	Mike Hardester/NBS Miramar, Ca.	63
KDEN/Denver, Co.	Carl Dabelstein/Omaha, Ne.	480
KQIL/Grand Junction, Co.	Bill Hardy/Aberdeen, Wa.	845
WNHC/New Haven, Ct.	Andy Rugg/Montreal, PQ.	290
WOCK/Washington, D.C.	Andy Rugg/Montreal, PQ.	480
WTAN/Clearwater, Fl.	Alan Imprescia/New York, NY.	1000
WROD/Daytona Beach, Fl.	Andy Rugg/Montreal, PQ.	1210

WTYS/Marianna, Fl.	(TIE)	Ernest Wesolowski/Omaha, Ne.	880
WPBR/Palm Beach, Fl.		Robert Kramer/Chicago, Il.	880
(Ernie WHO??, hi).		Ernie Cooper/Provincetown, Ma.	1195
WGAW/Athens, Ga.	(TIE)	George Santulli/Cranford, NJ.	675
WIGO/Atlanta, Ga.	(TIE)	Russ Edmunds/Parsippany, NJ.	675
WBBO/Augusta, Ga.		Russ Edmunds/Parsippany, NJ.	595
WGAA/Cedartown, Ga.		Robert Kramer/Chicago, Il.	595
WOKS/Columbus, Ga.		Russ Edmunds/Parsippany, NJ.	745
KSKI/Sun Valley/Hailey, Id.		Steve Francis/Alcoa, Tn.	160
KAIN/Nampa, Id.		Robert Kramer/Chicago, Il.	635
WSOY/Decatur, Il.		Gene Allen/Vallejo, Ca.	575
WJPF/Herrin, Il.	(TIE)	Gene Allen/Vallejo, Ca.	490
WJOL/Joliet, Il.		Carl Dabelstein/Lincoln, Ne.	400
WBLW/Bedford, In.		George Santulli/Cranford, NJ.	800
WTRC/Elkhart, In.		Russ Edmunds/Parsippany, NJ.	800
WLBC/Muncie, In.		Carl Dabelstein/Lincoln, Ne.	440
KROS/Clinton, Ia.		John Buehler/Toledo, O.	270
KCKN/Kansas City, Ks.	(TIE)	George Santulli/Cranford, NJ.	605
KSEK/Pittsburg, Ks.		Carl Dabelstein/Lincoln, Ne.	580
WCML/Ashland, Ky.		Carl Dabelstein/Omaha, Ne.	330
WBGW/Bowling Green, Ky.		Dave Magritz/Omaha, Ne.	205
WNBS/Murray, Ky.		Jeff Falconer/Clinton, Ont.	810
WEKY/Richmond, Ky.		Harry Hayes/Gouldsboro, Pa.	410
KVOB/Bastrop, La.		Carl Dabelstein/Omaha, Ne.	585
KRMD/Shreveport, La.		George Santulli/Cranford, NJ.	820
WFAU/Augusta, Me.		Chris Lucas/Fairfield, Ct.	635
WHOU/Houlton, Me.		Rick Carr/Austin, Tx.	390
WNEH/New Bedford, Ma.		Frank Wheeler/Erie, Pa.	1005
WBRK/Pittsfield, Ma.		Chris Lucas/Fairfield, Ct.	280
WLEW/Bad Axe, Mi.		Rodney Valdron/Petit Rocher, NB.	155
WDAV/Grand Rapids, Mi.		Andy Rugg/Montreal, PQ.	300
WCSE/Hillsdale, Mi.		Tim Kerfoot/Weston, Ont.	320
WTFE/Manistee, Mi.		Morris Sorensen/Emsdale, Ont.	215
WAGN/Menominee, Mi.		Bruce Conti/W. Warwick, RI.	780
WEXL/Royal Oak, Mi.		George Santulli/Cranford, NJ.	575
KVBR/Braintree, Mn.		Dave Yocis/E. Lansing, Mi.	135
KDLM/Detroit Lakes, Mn.		Russ Edmunds/Parsippany, NJ.	820
WEVE/Sveleth, Mn.		Chris Lucas/Fairfield, Ct.	525
KROC/Rochester, Mn.		Jerry Starr/Hubbard, Oh.	760
KXEO/Mexico, Mo.		Andy Rugg/Waterloo, Ont.	775
KLDD/Poplar Bluff, Mo.		Morris Sorensen/Leaf Rapids, Mb.	710
KSMO/Salem, Mo.		Carl Dabelstein/Lincoln, Ne.	300
KICK/Springfield, Mo.	(TIE)	Andy Rugg/Montreal, PQ.	1010
KCAP/Helena, Mt.		Jeff Kosnet/Chicago, Il.	385
KPRK/Livingston, Mt.		Rich Eddie/St. Louis, Mo.	110
KAEI/Miles City, Mt.		Dave Magritz/Omaha, Ne.	320
KYLT/Missoula, Mt.		Carl Dabelstein/Omaha, Ne.	320
KHUB/Fremont, Ne.		Don Kaskey/Sacramento, Ca.	740
KGFW/Kearny, Ne.		Forest Osborn/Hooker, Ok.	775
KSID/Sidney, Ne.		Don Kaskey/Sacramento, Ca.	965
KRAM/Las Vegas, Nv.		Gene Allen/Vallejo, Ca.	745
KBET/Reno, Nv.		Don Kaskey/Galva, Ia.	100
WDOR/Hanover, NH.		Carl Dabelstein/Omaha, Ne.	165
WNLD/Atlantic City, NJ.		Carl Dabelstein/Omaha, Ne.	360
KHAF/Aztec, NM.		Bill Hardy/Aberdeen, Wa.	785
KSIL/Silver City, NM.		Don Kaskey/San Francisco, Ca.	175
KKIT/Taos, NM.		Rich Eddie/St. Louis, Mo.	1015
WMBO/Auburn, NY.		Debra Hidden/Orlando, Fl.	860
WENT/Gloversville, NY.		Gene Allen/Vallejo, Ca.	790
WKSJ/Jamestown, NY.		Robert Wien/San Jose, Ca.	830
WUSJ/Lockport, NY.		Robert Wien/San Jose, Ca.	900
WMSA/Massena, NY.		George Walton/Easton, Pa.	200
WALL/Middletown, NY.		Tim Kerfoot/Weston, Ont.	250
WIRY/Plattsburg, NY.		Andy Rugg/Montreal, PQ.	355
WOOW/Greenville, NC.		Carl Dabelstein/Lincoln, Ne.	915
WJRI/Lenoir, NC.		Russ Edmunds/Massena, NY.	290
WTSE/Lumberton, NC.		Tim Kerfoot/Weston, Ont.	320
WGNL/Wilmington, NC.		Tim Kerfoot/Weston, Ont.	310
WAIR/Winston-Salem, NC.		George Santulli/Cranford, NJ.	430
KXPO/Grafton, ND.		Ron Musco/Windsor, Ct.	630
		Russ Edmunds/Syracuse, NY.	605
		Andy Rugg/Montreal, PQ.	810
		Andy Rugg/Montreal, PQ.	745
		Rick Carr/Austin, Tx.	1250

WNGO/Ashland, Oh.  
 WOUH/Athens, Oh.  
 WIZE/Springfield, Oh.  
 WSTV/Staubenville, Oh.  
 KIHN/Hugo, Ok.  
 KOCY/Oklahoma City, Ok.  
 KTOW/Sand Springs, Ok.  
 KBER/North Bend, Or.  
 WCVI/Gomellsville, Pa.  
 WSAJ/Grove City, Pa.  
 WOYL/Oil City, Pa.  
 WHAT/Philadelphia, Pa.  
 WRAW/Reading, Pa.  
 WTRN/Tyrone, Pa.  
 WBRE/Wilkes-Barre, Pa.  
 WWPA/Williamsport, Pa.  
 WOKE/Charleston, SC.  
 WSSC/Sumter, SC.  
 KJTV/Huron, SD.

(TIME)

KRSR/Rapid City, SD.  
 WBAC/Cleveland, Tn.  
 WKRM/Columbia, Tn.  
 WKNV/Knoxville, Tn.  
 WLOK/Memphis, Tn.  
 KWKC/Abilene, Tx.  
 KHLB/Burnett, Tx.  
 KAND/Corsicana, Tx.  
 KDUB/Lubbock, Tx.  
 KREA/Lufkin, Tx.  
 KPIN/Pampa, Tx.  
 KOLE/Port Arthur, Tx.  
 KTEO/San Angelo, Tx.  
 KVLC/Victoria, Tx.  
 KMFI/Manti, Ut.  
 WTWN/St. Johnsbury, Vt.  
 WKKEY/Covington, Va.  
 WHAP/Hopewell, Va.  
 WJMA/Orange, Va.  
 KSMK/Kennewick, Wa.  
 WOKE/Charleston, WV.  
 WHAR/Clarksburg, WV.  
 WFPM/Martinsburg, WV.  
 WMON/Montgomery, WV.  
 WKEE/Welch, WV.  
 WLDY/Ladysmith, Wi.  
 WRIT/Milwaukee, Wi.  
 KSGT/Jackson Hole, Wy.  
 KYCN/Wheatland, Wy.  
 KWOR/Worland, Wy.  
 CFGB/Happy Valley, NPLD.  
 CFYK/Yellowknife, NWT.  
 GJLS/Yarmouth, NS.  
 CKNR/Elliot Lake, Ont.  
 CFCH/Hearst, Ont.  
 CKAR-1/Parry Sound, Ont.  
 CKIK/Woodstock, Ont.  
 GHAD/Amos, PQ.  
 CJAN/Asbestos, PQ.  
 CJAF/Gabano, PQ.  
 CHRD/Drummondville, PQ.  
 CKMG/Maniwaki, PQ.  
 GJQC/Quebec, PQ.  
 CBGN/Ste-Arme-des-Monts, PQ.  
 CKVT/Temisaminque, PQ.  
 CFSL/Weyburn, SA.  
 ZEM-2/Hamilton, Bermuda.  
 XEAA/Mexicali, BHN.

Jeff Kosnett/Chicago, Il. 315  
 Paul Mount/Nelsonville, Oh. 10  
 Richard Waterman/Southwick, Ma. 590  
 George Walton/Easton, Pa. 330  
 Carl Dabelstein/Omaha, Ne. 500  
 Rich Eddie/St. Louis, Mo. 440  
 Karl Jeter/Atlanta, Ga. 675  
 Don Kaskey/Sacramento, Ca. 375  
 John Buehler/Toledo, Oh. 265  
 Jerry Starr/Youngstown, Oh. 30  
 Jerry Starr/Youngstown, Oh. 71  
 John Buehler/Toledo, Oh. 470  
 John Buehler/Toledo, Oh. 415  
 George Walton/Easton, Pa. 180  
 Tim Kerfoot/Weston, Ont. 260  
 Neil Kazaross/Pawtucket, RI. 300  
 Tim Kerfoot/Weston, Ont. 780  
 Steve Francis/Alcoa, Tn. 240  
 Carl Dabelstein/Omaha, Ne. 240  
 Dave Magritz/Omaha, Ne. 240  
 Carl Dabelstein/Omaha, Ne. 405  
 Steve Francis/Alcoa, Tn. 67  
 Dave Yocis/Fairfield, Ct. 840  
 Andy Rugg/Montreal, PQ. 830  
 George Santulli/Cranford, NJ. 950  
 Brett Hanavan/Chula Vista, Ca. 1085  
 Carl Dabelstein/Lincoln, Ne. 685  
 Frank Wheeler/Erie, Pa. 1120  
 Gene Allen/Vallejo, Ca. 1195  
 Carl Dabelstein/Lincoln, Ne. 660  
 Robert Kramer/Chicago, Il. 840  
 Alan Imprescia/New York, NY. 1400  
 Wayne Heinen/Colorado Spngs, Co. 590  
 Carl Dabelstein/Lincoln, Ne. 830  
 Gene Nix/Billings, Mt. 465  
 Tim Kerfoot/Weston, Ont. 360  
 Tim Kerfoot/Weston, Ont. 430  
 Sharon Waterman/Southwick, Ma. 405  
 Tim Kerfoot/Weston, Ont. 400  
 Don Kaskey/Sacramento, Ca. 545  
 Tim Kerfoot/Weston, Ont. 780  
 Bruce Conti/W. Warwick, RI. 490  
 Neil Kazaross/Pawtucket, RI. 385  
 Rodney Valdron/Petit Rocher, NB. 1030  
 Jeff Kosnett/Charleston, WV. 60  
 Wayne Heinen/Buffalo, NY. 665  
 Andy Rugg/Montreal, PQ. 715  
 Robert Kramer/Chicago, Il. 1175  
 Gene Allen/Vallejo, Ca. 965  
 Wayne Heinen/Colorado Spngs, Co. 400  
 Rodney Valdron/Petit Rocher, NB. 350  
 Morris Sorensen/Gods Narrows, MB. 700  
 Rodney Valdron/Petit Rocher, NB. 290  
 George Walton/Easton, Pa. 610  
 Morris Sorensen/Leaf Rapids, MB. 840  
 Tim Kerfoot/Weston, Ont. 110  
 Rodney Valdron/Petit Rocher, NB. 795  
 Tim Kerfoot/Weston, Ont. 320  
 Tim Kerfoot/Weston, Ont. 380  
 Andy Rugg/Montreal, PQ. 280  
 Andy Rugg/Montreal, PQ. 70  
 Tim Kerfoot/Weston, Ont. 240  
 Andy Rugg/Montreal, PQ. 155  
 Rodney Valdron/Petit Rocher, NB. 100  
 Tim Kerfoot/Weston, Ont. 200  
 Carl Dabelstein/Omaha, Ne. 670  
 Rodney Valdron/Petit Rocher, NB. 920  
 Don Kaskey/Sacramento, Ca. 540

ZZZZZZZZ Oh, sorry, I fell asleep. That does it for 1340, and ERNIE COOPER- I don't envy you. After doing this particular column, I know what you go thru: Tylenol, or Anacin, which do you use, hi. 1400 deadline is May 4th. 73's *Bill*

# MUSINGS

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

## RAY EATS AND DXES SIMULTANEOUSLY

RAY ARRUDA - 47 Burt Street - Acushnet, MA - 02743  
 ..... WLET-1420-TEST was tentative here w/TT from midnight to 12:05am Tues. AM 2/3. KRPX-1080-TEST tried, but not heard. Some SSS DX done on 2/2 & 2/8... starting with 2/2: 550 brought WHLM very weak in WGNL null 4:54-5:10 w/NBC NX, IDs, local nx & T-40 mx, and later, 5:31-5:35 WKRC w/"KRC" ID, stocks & WX. Moving up to 2/8 at SSS: CX Auroral as WAMB-1170 was all alone for about ten minutes from 5:32-5:42 w/BBD mx, IDs, w/no WWVA. WPAQ-740 was in from 5:51-6pm s/off w/EZL mx, spots, IDs & s/off announcement, no SSB. WAMP-1060 briefly o/KYW w/T-40 mx, ID @ 6:14 just before power/pattern change. MM 2/9 was a bust w/nothing new noted, CX favored Southern reception as Canadians were weak with some examples being XERF practically eliminating CKLM at 1:15, WPIR-960 on top, WLAC with armchair level on 1510 all morning, & stations like WINZ, WTMA & WDDC were topping their frequencies of 940, 1250 & 1260. WZZD-990 was on ET/TT/OC 2:39-2:59 w/ID @ 2:56. SSS same day on Mon. 2/9... big bonanza on 990. I set the tape from 6-6:30pm and headed for chow. When I came back to replay the tape, WEEB, WHOO & WDWD were all logged within a half hour! WHOO was in well before pattern change 5:59-6:15 w/NX, WX, C&W mx, no WZZD until well after 6:30. WEEB was in w/IDs & possible 6pm s/off, not enough for a report on this one. The biggie was WDWD, Dawson, GA weak from 6:24-6:30 s/off w/T-40 & pop mx, WX, "D-99" IDs to s/off w/SSB. Tape was sent on this one. Veries are back from WVLV-940, WINF-1230, WLAN-1390 WILI-1400 & WSRO-1470. 73.

## SUGGESTS WE BE MORE DIPLOMATIC

STEVEN PARADIES - 18 Cornwall Avenue - Millville, NJ - 08332 2/10/81  
 ..... My goodness: two Muses in a row! Will wonders never cease? DX of January will have to wait, as I want to comment on a few things. Does anybody out there realize the bad press we are getting? Worse yet it is from our own bulletin. Yes, if one complains, say that WBZ-1030, or KNX-1070 are 24-hour pests we could be labeled as whiners and criers in some people's eyes. Granted, the majority of us are not the afore-mentioned, but as the "Intro to DXers" says, if one or two bad reports are sent to a station, the station may simply brand the whole group of us as pains in certain spots. I agree with BILL HARDY and SKIP AREY that BCB DXing is to be enjoyed. There is no sense losing sleep (hi!) over whether or not a particular station will ruin changes at a TEST. Hobbies are supposed to be relaxing. I would like to suggest a slight shift in the way we phrase things. For example: "WBZ slop kills 1000 thru 1070". Why not say something a little more diplomatic, like, "WBZ, because it is so close (or so powerful) makes 1000 thru 1070 difficult." I really enjoy DXing in whatever form it takes, and I look at more 24-hour stations as more targets, more of a challenge. Just remember, not only is there good press, there's bad press. Maybe one station owner tells a fellow owner a copy of a copy of DX NEWS that is loaded with complaints about a non-verifier or a "24-hour pest." What kind of impression do you think that will give him? Conversely, if the same two people see their stations mentioned as strong ones carrying a greater than normal distance, they may become interested. I think the word for the 80's should be "c'est la vie." 94's.

## NEW CATCHES ARE PLENTIFUL IN YAD-LAND

JERRY STARR - WSRD Radio - 401 North Blaine - Youngstown, OH - 44505  
 ..... Recent DX: 1/12 a good morning for TESTS, WEYZ-1450, WCSM-1350 & WDMP-810 all made it here. Also that AM WRTA-1240 was atop most of the AM w/a PoP. 1/26 saw the WAVU-630-TEST make it with their final ID only @ 1:30. Long verie-holdout WMOH-1450 dominant @ 3 (verie back finally after years of trying), WXVW-1450 w/teletalk 3:06-3:30+, WTAX-1240 ET/TT 3:51-4:30+ & WUBE-1230 w/loud AM-FM ID 5:30, into C&W mx. 1/30- WQQW-1590 absolutely killing WAKR w/Larry King 3:39-4+. 2/2- WTVB-1590 also smashing WAKR w/ET/TT & good ID @ 2:12. 2/4- WYNX-1550 at S-9+20 most of morning w/GOS mx & IDs about every 15 minutes. This looks like it'll be a regular. 1550 used to be my favorite frequency, a few years ago I needed five stations to complete the frequency, now it sounds like a GX. Too bad. Veries back from WHJJ WXGR WEYZ WCSM WDMP WRTA WMOH WUBE WTAX, all v/l. Interesting coincidence: The only two PA stations listed in DON KASKEY's list of those not heard since Vol. #41, WFRM-1450 and WSAJ-1340, are the two I had just arranged DX TESTS with, info should probably be in this DX NEWS. You should have waited a few more weeks Don, hi. 73 and good DX.

WITH MON. FEB. 16 A POSTAL HOLIDAY, THIS ISSUE WAS CLOSED OUT AS OF FEB. 14.

KYAC-1250 SEEMS TO BE HAVING PROBLEMS

Feb. 10, 1981  
 BILL HARDY - 2301 Pacific Avenue - Aberdeen, WA - 98520  
 My first new logging of 1981 came on Sat. 2/7 in the form of a KNGO-1250. The Frank & Nancy Sinatra "Somethin' Stupid" song was folo by a KNGO mention 8:52pm, then local ads; good signal. KYAC was nulled with Sheridan Network NX. Nancy (my wife, not Sinatra, hi) tells me that KYAC has been leaving the air most days at Seattle sunset and taking 15 to 45 minutes to return at full power; they were on what seemed like reduced power while I logged KNGO. I presume they're having troubles switching to night pattern. Not good for the afternoon drive ratings in a competitive market like Seattle! If their problems persist, maybe 1250 Seattle will go dark again, hi. But then, maybe not. Nancy says KNGO has been in just about every day after sunset that she's tried for them since they went fulltime last Fall, so go gettun. They have even been good at times with KYAC on, and with KYAC off they're easy. Otherwise, most DX here has been done by Nancy for the NRC Contest. It's been so long since we DXed on a MM that we even forgot to try for the KRFX-1080 TEST, which was one of the few this year we had a snowball's chance of hearing! We enjoy reading all the Musings of the Members from everywhere, and especially those of you in the Pacific Northwest. And ERNIE, we too like your new typewriter, and se hope you and it are having a successful honeymoon. 73 & good DX.

CRIME DOESN'T PAY!

2/2/81  
 BRAD CHAPPELL - 510 Barton Street - Stoney Creek, Ont.  
 (Forwarded to ERC by Louisville) Hi folks! This is my second Muse. #1 took a long time to produce so I didn't want to make that mistake again. I'd like to talk about pirates - radio that is! For about 15 years I now I've fooled around with very small (10-100mw) transmitters. In 1975 I moved to England and worked there for a year. During that time I found the huge amount of pirates overwhelming & I built up my TX (?? -ERC) until I got around several watts. I was lucky, but some of my friends were not. For some reason I couldn't stay off the air. When I returned to Canada I played a round with it again. I got the power up to 9.8w output, and fed it into a wavelength horizontal wire. My friends would request certain albums but I was more interested in following the signal. Finally I began a schedule and was very constant for several months, until the D.O.C. put an abrupt end to it - for good. They let me off lightly and I've been very good since, but one question still continues. How far did my signal get out? I would greatly appreciate any info on CPAB-1620 kHz (me) during 1978 and if anyone is interested in European pirating, or more on CPAB, please write. It was fun while it happened, but it's also a good thing to have ended. 73s. (Please send your Musings to the address at the head of the Musings column, Brad! -ERC)

STANDING IN THE CORNER, WATCHING ALL THE DX GO BY

418-465-9504  
 AL QUAGLIERI - Box 687 - Albany, NY - 12201  
 Please allow me to tie up any loose ends about my "Incredible Loggings" protest some issues back. From 1978, when I joined NRC, until just recently, loggings in DDxD and IDxD seemed to be pretty straightforward and factual; because I got used to accepting these loggings at face value, the appearance of "iffy" items in DDxD alarmed me because of a potential loss of credibility for our Club. Since airing my grievances, several members have graciously put me straight as to the NRC's long tradition (mostly before my time) of occasional "joke" loggings, which are now quite obvious even to a simpleton like myself. I must emphasize that it was never my intent to ridicule or insult individual members of this great organization, & I apologize to anyone who took my comments as a personal attack. In times when we're supposed to take most things seriously, it's sometimes easy to lose perspective on even our hobbies, which are supposed to be fun. I'll go stand in the corner until the DX season is over! ERNIE, BBCMS is "BBC Monitoring Service", which publishes five "bandscan" type reports.

SIDNEY SPLITS HIS DXING BETWEEN BCB & SW

Feb. 8, 1981  
 SIDNEY E. MARSHALL - 7224 Pam Drive - Millington, TN - 38053  
 Well this winds up my two week vacation, which for some reason is always the shortest weeks in the year! I've sure enjoyed the time at the dials & in looking ahead, my work sked isn't going to permit much DX time for the next several weeks. I picked up a copy of the 1981 "Communications World" the other day & was surprised & pleased to see a picture of member LARRY VAN EORN in this issue! I've also received my first issue of "Voices" a new magazine that contains a wealth of info for the avid SWL. As most of you know by now my free time is divided between MW DXing & SWling. So for any of you who are interested in advance program information on many of the major SW stations that broadcast in EE I highly recommend Voices. Now back to MW DX. During the past week I've logged two newies which brings my station total up to 882 heard. New ones are as follows: On 2/6 @ 6:21pm WELB-1350, AL came in weak but clear, w/ID, mx, & spot for Western Sizzling Restaurant on Hi-way 84 in Enterprise before being covered by WSMB. Then on 2/8 @ 6:17pm KLEB-1600, LA, was in very strong w/mx, ID, three spots in a row, more mx, & another ID heard before it faded out. As time permits I've got to get back to hitting the GY frequencies as it has been some time since I've logged a new GYer. So till my next Muse good DXing to all.

BOB MIELCAREK - 2317 East Ohio Avenue - Milwaukee, WI - 53207 414-481-5755  
 As it's been two months since my last Muse I have a lot of catching up to do. I took a four week break from DXing, but I'm happy to report that I'm back firmly in the groove. My station total now stands at 484, with 150 new ones since Sept. 15, including 35 between Feb. 1-5. The best of the recent DX includes: CJOB-MB, WTOP-DC, KQXI-CO, during a sunset session on 1/20. KHEY-690 TX, CFTR-ON, CFPY-MB, WGST-GA, on MM 1/28. WCHU-NY, WMOB-AL, WHLO-OH, WEOL-OH at SSS 1/28. WPIT-PA, KTMO-MO, KSUO-AR, KLIP-TX on 2/1. WYIS-PA, WPDx-WV, KMMJ-NE, KHM0-MO at sunset 2/2, w/WPLO-GA & CKTB-ON later that night. Sunset on 2/4 brought in WFMW-KY & WGBS-FL; WURO-AL was in later that night. Five stations in 30 minutes at SSS on 2/5, WCIL-IL, WGUN-GA, WBAM-AL, WSJC-MS & WRUF-FL. WRUF is my third Florida station, the second in two nights. I had planned to stop at this point, but CX have stayed hot, so I've delayed getting this into the mail as I'm closing in on '500'. Eight more stations were added on 2/6, the best being WLEE Richmond, 45 minutes before sunset. 2/7, total is now 498. A late night catch of WOKJ Jackson MS wrapped up another good day. One of the things that has helped bring my total up has been a daytime bandscan. I've logged a lot more stations within a radius of a few hundred miles, including CFCC & CHYR, ON. It's a good way to fatten a slim log. (I'll send it in along with a future Muse). 2/8 - At last, my first mile stone, #500. KOWB Brownwood TX @ 1:07am C.T. (??-ERC) was 499 and at 1:28 WCBM Harrisburg PA IDed for #500. I logged #400 on 11/10/80, with 166 "newies" since 9/15, which is a pace I'd like to maintain for the rest of the season. 2/9 - Four more new ones to report on my way to 1,000. KPBC-TX, KDJW-TX, KWKY-IA, WDAY-ND. KPBC is one of my best ever, with its 1,000w coming in o/WHO. That wraps things up around here. I'll Muse again when I have more to report. Before I close I'd like to thank BILL HARDY for his mention of my NSP program in his 2/9 Muse.

\*MARKETING STRATEGIES IN GETTING A VERIE\*

2/5/81  
 TONY FITZGERBERT - 116 Devon Road - Chalfont, PA - 18914  
 In looking at a 77% verie response for 1980 and about 60% for this season, I wonder why some of our requests go ignored and how a DXer markets his/her reports so that we as a group may enjoy positive regards from the industry - and the DXer gets a verie! Let's apply some psychology to the process of getting a verie - basically a favor to us. Put yourself in the shoes of a PD whose station rates #11 in a ten-station market! He's worried about his job, his market, and not a DXer 400 miles away! Or the CE in a huge U-4 station who has received an accurate 40 minute report from 350 miles down the night null - does he commit himself, or does he try to cover himself and hope that you were the only person to note that his station never made it to its night pattern? I received one verie from a disbelieving CE 250 miles away who found it hard to believe I got his signal at 10pm - of course the log noted the switch to night operations. (He was at least nice enough to verify!) A couple of Canadians received never verified - and the Night Pattern Book puts Chalfont deep in the null. Then there is the local station with a skeleton staff, whose efforts are geared to survival in a small market - reception reports do not sell time (except for REL!) Conversely, reports may get lost in the bureaucracy - maybe my reports to WLS, WJJD, or CFTR (twice each) are in an in-basket (or circular one, hi!). Then a lack of motivation - some people hate their jobs or employers - at two stations I have visited, personnel have told me that they were making minimum wages, although they, and most broadcasters, like their work. Also, face it, some people are lazy! An isolated problem may be contempt for outsiders interested in the work - as paralleled by a railroad's dislike for rail fans (who may know more about the operation than the employees), although, at my employer, this attitude is fading. This dislike may cause a verie not to be answered. And, the CE of CKKK, Moose Knee, YT, may get a report - and not know how to answer it. Finally, people at a radio station may not be as excited to learn - as the DXer is - that WCTR-1060 was received at high noon at 17th and Market Streets, Philadelphia, and still other staffs become immune to reports after receiving hundreds of them! Part 2 - the DXer's strategy. Veries in this week from WFIR & WINY - DX to DAVE SCHMIDT'S column. Good DX!

ERNIE LOGGED THE WCSM-1350-TEST!

ERNIE J. WESOLOWSKI - 1416 Pasadena Avenue - Omaha, NE - 68107-1100  
 Not too much DX to report but I can say that WCSM-1350-TEST made it all the way to Omaha for the furthest West report. Then on 1/26, the WENN TEST came through with only one ID @ 1:19:40. On Groundhug's Day WKLF-980-TEST from Alabama was above ground o/u KMBZ/WRC. Veries received from the above three stations. Thanks to the CPC Committee for their fine work. The new KNMX in Las Vegas, NM, has been heard a few nights at sunset (7:15pm) w/EE s/off. Normal programming is in SS. A note to the FM DXers is out local station KEFM-96.1 went off the air for good. Antenna blew down last Summer and cost too much to mount it permanently. Frequency is now available. I hope to see Bruce Reynolds & SKIP DABELSTEIN in K.C. later this month. Thanks to BOB KRAMER, MARK STRICKERT, & KARL FORTH in Chicago for the good visit and tours. I'm planning to see everyone for the Convention over Labor Day in New Jersey. 73s.

## FINDS A PIPELINE INTO NEW ENGLAND

GERALD H. BARKOW - 29 Sedgefield Drive - Morris Plains, NJ - 07950 Feb. 7, '81  
 ..... DX since last report...1/25- Very good opening to the New England states. I took a 30 minute report on WLKW-990 with MYL format destroying WZZD 4:15-4:44pm s/off, then WNTY came barreling in with a quickie s/off @ 4:45. MM 1/26, with the N.E. opening continuing. WLAM-1470 (Maine # 10) 2:20-2:40am w/rr mx & sexy-sounding Melodie Brooks. WAVU-630 & WENN-1320 TESTs tried but not heard. The WSWW-1590-TEST also was tried & a TT was heard very weakly u/WAKR, but no audible IDs, so I don't know if it was they. 1590 was being severely hetted by Germany-1593, which was exceptionally strong and really doing a number on WAKR. While trying for the WSWW TEST I caught the end of unnn WGOE-1590 r/c ending @ 1:04 with outs from comedy albums. I also caught WVFC-1530 r/c-TT w/IDs every two minutes 2:30-2:40am. 1/28- Good TA opening during the evening hours with hets all over the dial. On or about 1395 a strong carrier with an UNID language @ 6:15pm, maybe Albania? 2/2- Another MM with nothing new. I tried for the WKLF-980-TEST, but a big zero. Unn KRMG-740 ETing w/TT & mx 2-2:15+, WIXY-1600 noted topping channel this AM while trying to ID a TTer 1:44-1:58am. 2/2 SSS produced a rare opening to the West. (I was getting tired of hearing WFPA sounding like a local). Unn WOOD-1300 on top @ 5:25pm, then WQBK came barreling in w/s/off @ 5:30. Also WHLD-1270 signing off @ 5:45pm. 2/3- I took a 20 minute report on WSYB-1380 (VT #6) topping semi-local WBNX 5:10-5:30pm when they cut their power. Veries in from WZIX-1350, WMPM-1270, for an Oct. '80 report, WCSM-1350, WVFC-1530 (back in four days) & WPHB-1260, who also sent a golf tee. Till next time, 73 & good DX.

## DAVE DOES VERY WELL IN HIS LIMITED TIME

DAVE SCHMIDT - 42 Chelwynne Road - Castle Hills - New Castle, DE - 19720  
 ..... Limited time gives one limited DX, thus limited Muses! Really, between the family/railroad/radio stations/DDXD/civic association/bowling, I can't complain! To what's heard/reported: 1/18- WBDY-1190 4:06-4:29pm doing a nice job on WANN/WLBI/WOVO w/C&W mx, lots of spots. 1/29- WLNG-1600 12:18-12:25 loud w/ET, TT w/ID at end, never verified an Aug. '76 report, so another shot. 2/2- WKLF-980-TEST 1:37-1:56am, spotty w/C&W mx, one good ID, topped frequency, @ 1:39am, otherwise o/u WTRY, I believe. 2/6- CFBK-690 12:48-1:02 am w/rr, dual ID w/CFBQ-1340, mostly o/WMAL w/Cuban nulls. 2/8- WJRB-1430 2:12-2:30am w/c/w mx, one sd noted, louder than usual so I bagged 'em. 2/9- WPIE-980 2:10-2:23am w/rr, ran seven commercials in a row when I tuned in, briefly atop, then spotty, ID's as "Pip-98". Also WRNG-680 2:28-2:40am loud on PoP ET, various TTs w/IDs mentioning return to RS @ 5:30, noted as early as 12:30am! All the Wilmington stations were off on 2/9, and all were running OCs off/on. It still happens in the 80's, hi! Veries are at 1,049 with the following added: V/ls from WCM1-1340 (w/CM), WEYZ-1450-TEST, WMPM-1450 (w/BS), v/f from WCSM-1350-TEST (w/"Tot Spot"), & a v/f & v/c from WBDY-1190. WBDY mentions running 6,400w, not yet on full power, WEYZ/WMPM keep PA 100% verified w/145 from the Keystone State. As everyone else has noted, returns are really down this year; I'm running about a 55-60% return rate! HANK HOLBROOK's mention of WVFC-1530 being in a trailer brings back the memory of a trip my father & I took back in the mid-60's to the home of ALLEN NISSEN, then in Ft. Lee, NJ. We were joined by JOE FELA for a fun-filled trip to the trailer studios of WRKL-910. Odd thing on that visit was a big "CONDEMNED" sign on the front door but they were still on the air! I understand that the only thing that forced them out of there was a fire that destroyed the trailer! Thanks for the continued support of DDXD! 73's. Good luck with Jury Duty, ERC!

## MORE HAS HAPPENED!

DICK TRUAX - 3003 Gleeson Lane - Jeffersontown, KY - 40299  
 ..... With some nice skip to the Southwest lately, activity has yielded a few new loggings. 1/27- KBRI-1570 AR s/off @ 6:15pm, mentioned to tune to FM on 102.3, also KSRB-1570 AR s/off @ 6:16. 2/3- WKUN-1580 s/on @ 7:15am killing pest WPGC. 2/7- WAXO-1220 TN s/off w/piano SSB & ID @ 6:31pm, then KZEE-1220 TX w/ID & NX @ 6:55pm, s/off @ 7:15pm, along with tiny KRCM-1220 OK s/off @ 7:15 like a local. Thanks to a tip from RICH LEVIN, KNMX-540 NM w/mucho SS IDs @ 7:35pm, s/off in EE mentioning call letters of studio link @ 7:45pm. This can easily be confused w/XEWA if you don't listen for a while. Only the third station from that state for me. 2/8- WLBI-1220 LA w/ID & NX @ 6:32pm, WSLG-1090 LA s/off @ 6:45pm very strong and all alone. After a temporary lull, with activity like this I find my interest picking up again. I'm relieved to see that someone else heard the pirate on 1616 on 1/19, I was beginning to think I was imagining things! No sign of it since, but I only get to the dials on weekends. More as it happens.

## THERE'S A SO-FAR UNLISTED TIZZIE IN OUTER BANKS

RELFE LUTON - Route 1 - Box 520 - Elizabeth City, NC Feb. 9, 1981  
 ..... I recently heard KID-707-1610 kHz, National Park Service, I think located on Bodie Island Visiting Center, 7 1/2 miles S of Nag's Head. ID is every three minutes, then repeats. This could be ERC's 1610 mystery - would be a nice catch! WCPK splash here days. I have Jury Duty at the same time! Good DX. (Nice hearing from you again, Relfe - may we hear more?? -ERC)

## RICH'S LOG IS GETTING RICHER

RICH LEVIN - 7311 Cross Creek Boulevard - Louisville, KY - 40228/502-239-5693  
 ..... The DX continues to come in, & here's what I've nailed down in the last week. WDSM-710 on 2/2 @ 4:27pm, unbelievably early w/c/w mx, NX. More 2/2: Much-wanted WBAL-1090 @ 5:03pm, w/NX, McDonald's ad, MD #2. WGNV-1220 @ 5:12 w/commentary, WX. KBUF-730, @ 6:32 w/NX, WX, rr. WSJC-810 @ 6:48 good in WGY null w/SX, pop mx. 2/3: WKEG-1110 @ 5:25pm w/ID. WPIT-730 @ 5:30 strong w/REL program, mention of WPIT-FM. KWRE-730 @ 6:45 w/s/off, no SSB. 2/5: WMBI-820 (??-ERC) xlt w/NX, several ads. 2/6: WLUX-1550 @ 6:16pm fair o/WMOO w/ID, PSA. WVSM-1500 @ 6:29 xlt o/unID SSB, w/s/off. WGOK-900 @ 6:42 w/DJ talking about taking good night calls. WBNS-1460 @ 7:30 weak w/WX, ID. 2/7: KGYN-1210 @ 7:05 local-11ke w/UPI, local NX. KNMX-540 @ 7:25 poor-fair w/SS mx, slow SS ID. State #37. 2/9: WJXY-1050 @ 5:56 weak at s/off, no SSB. WENC-1220 @ 5:58 xlt w/NX, s/off, no SSB. 2/10: KXEN-1010 @ 6:31pm w/GOS singing show, ID. WMUF-1000 fair @ 6:32 s/off in WCFL null. Other catches: WSON-860, WVOL-1470, WJMW-730, WMCE-1260, WPRT-960, WLFA-1590, WEIC-1270. KNMX should be an easy one for all in the Midwest. With XEWA having troubles, they're not hard to pick out. The one DJ drags out the IDs, also. Have you ever thought of all the partial s/off's & s/ons, all the TTs, and SSB's you didn't identify? Just imagine how big your log would be if you had IDed them all! You may have heard one of your most wanted stations, or some station 2,000 miles away or so that you never dreamed of getting! Ah well, I guess that's what makes DXing interesting. I've noticed that all of the columns have been getting rather short lately. How 'bout giving our editors and LPC a little bit more work? That ought to do it for this week. Log is at 540.73s.

## WROD-1340 HAS TESTS ON THE LAST SUNDAY

DAVID E. FOX - 333 Douglass Street - Reading, PA - 19601 2/12/81  
 ..... It's been too long since A Muse so here goes: The flu bug here has finally been replaced by the DX bug. The best part of the flu was waiting for the mailman's delivery of veries. A number have been received in the last month. Many from very kind station personnel who took the time and effort to prove that DXers still have a good chance to obtain veries if they submit decent respectful reports. DX TESTs of WMOV-1360, WCSM-1350, WAVU-630, & WKLF-980 all produced veries. The two Alabama stations were just barely heard here. Veries turned up from my 12/29 loggings of WROD & CKNR on 1340 while local NSPer WRAW was unexpectedly off the air. The WROD v/l indicated the same info HANK HOLBROOK's did. WROD runs an ET the last Sunday of the month. WBFD-1310, WWGP-1050, WMUU-1260, WCTC-1450, WCRT-1260, WWGS-1430, WBDY-1190, & WAPP-980 all came through. WIIN-1450 non-verie similar to DAVE SCHMIDT's also turned up (a WFPG v/q with no info & a WIIN bumper sticker). More recently friendly v/ls have been received from WQCC-1540, WBRG-1050, WCLN-1170 & WSDS-1480. The WSDS v/l was for a Sept. 29 report and mention is made that WSDS is barely audible ten miles to the West in Ann Arbor & 15 miles to the S in Milan, MI. Their pattern is highly directional to the NE. The pattern protects WORO-1470, WABJ-1490 & WPON-1460. And finally a verie was received from st. Kitts' R. Paradise-825. Several reports are out: 2/5 CX were very good at sunset with reports taken on the 6:15pm s/off of WHVL-1600 and the 6:45 s/off of KMAR-1570. Also on 2/5 WCCL-1590 was logged w/c/w mx & spots from 6:35-6:45pm. On 2/3 the big surprise was a weak logging at 7:45pm of the KZIA-1580 s/off with mention that they are a NX & information station. MM 2/9 turned up nothing but a 4:59am s/on logging of WJNL-1490 and into CBS NX @ 5. Also on 2/9 WJRD-1150 was logged for the first from 6:15-6:30pm w/c/w mx many spots. Only other recent logging was the s/off on 2/6 of WLBQ-1570 at 6:30pm with just not clear enough signal for a report but with mention of ownership and studio location & ISSB. Finally, this evening 2/11 CX seem somewhat normal as a big rain/snow storm passes through. Only logging of interest was WNDB-1150 @ 6:15 w/cash-call promo and spot for the Sand Bar! Total loggings have now reached 1,385 and veries are up to 945. For what it's worth, local WRAW-1340 now has a three-hour talk show from 9pm to midnight Monday thru Thursday. Good DX and best 73's to all.

## AWAITING HIS NEW DOMESTIC LOG

WHEELER CONOVER - RR #5 - Box 344B - Manchester, KY - 40962 2/10/81  
 ..... Time once again to fill the pages of DX NEWS with my Muse, hi. I'm sitting here in Biology II now while I'm done with my work & I'm watching it rain. If it snows...Well, I have done some DX lately, but it looks like my RF-2800 is tearing up on me. I can't convince my mom to let me send it off & have it fixed, but I'll convince her when it starts up a little more & it tears up on me, hi. I'll have to pay and have it fixed myself, so she won't have too much to say about it, then. Oh well, enough on that. Let's see- v/qs from WVA & WNBC in the last week, so I'm up to about 25 on veries. The new DX brings me up to 230 heard or something like that. Details in DDXD. Looks like now that I'll be building a less-sophisticated loop until I can figure out what is being said in the reference manual. I think it's a good publication & worth the \$2.50. I guess now I'll buy the receiver manual when I get my Domestic Log (whenever that is, hi). No, I can wait until JOHN CAL- LERMAN gets done - it's worth the wait. I'll go now, as it's time for lunch. 73's de Wheels.

DEADLINE EVERY MONDAY IN PROVINCETOWN. LET'S HEAR FROM Y-O-U-I

CALLING TAPERS AND SC COLLECTORS!

MIKE HARDESTER - 574 Deer Springs Road - San Marcos, CA - 92069 Feb. 8, 1981
..... Nothing new in the area of DX and in 12 years plus of active DXing, this has been the least active year I've "participated" in - farm work and Uncle Sam don't allow for a lot of free time! For some of the older DX-ers (in terms of years of activity), I've got a question/favor to ask if possible. How many remember "Curtis Springer", "Dolly Holiday", "Music Till Dawn" (sponsored by American Air Lines), and other similar programs? My first question is simply whether any member might have tapes/promos for the preceding programs (or others) and would be willing to copy some of the off-air tapes they may have in their files. Whole programs are not desired, unless you want to, only segments of the programs. Also, some help from SCers is requested. If anyone has year-end SCs (1955 to 1969) of (as an example) the top 100, top 500, etc. for the year for rr stations and would be willing to photocopy or otherwise copy their SCs, I would very much appreciate such copies. Reimbursement, of course, will be made, & I can provide the blank cassette or reel-to-reel tapes for the programs. Any help in either area will be very much appreciated. Thanks! Very 73 and best of DX de Mike.

LOOK WHO'S BACK! WELCOME, CHARLES!

CHARLES REH - 34 Garrison Avenue - Leamington, ON - N8H 2P2
..... After about five years of DX inactivity, I'm back at the dials again. First a reintro: I'm 34, single, and work as a maintenance electrician for the Ford Motor Co. I started DXing in 1961 and joined the NRC in 1962. I've logged 3,982 stations from all 50 states, ten provinces and 83 countries. Equipment: R-390A/URR, Hallicrafters S-40A, two loops (Sanserino and LSCA-1) and a Realistic SCT-2B stereo cassette recorder. Most of my free time these past five years has been on FM; not DXing, but recording oldies & then transcribing them into my collection. I only record the ones that I like and right now I've got something like 2,000 songs on tape. I guess I must be easy to please. They're mainly from 1954 to 1963 and there are a couple that I can't ID, so if you're an oldies freak, maybe you could help me out. Drop me a line. (Hum a few bars, Charles! -ERC) I've been getting the equipment in shape with new FETs for the Sanserino Loop and a pattern reverse switch for the LSCA-1. The receivers check out okay except the VFO on the R-390A is out by =5 kHz. There's an end point adjustment to compensate for this but it's a major operation just to get at it. If anyone has done an end point adjustment on the R-390A, I'd like to know if there's enough adjustment to compensate for a 5 kHz error. Also, where can I get a #8 Bristol alignment wrench and a UG-573/U coaxial connector? Now to DX: I've logged quite a few new ones since the start of the year, but most are call changes (after five years, they sure pile up). A few of the more interesting catches are: 2/2-WCII-1080 KY "Country Eleven" 1am s/off, so MM SP is still in effect. 2/5-WKNG-1060 GA 6:27pm, IDs as "The King"; KTIA-1540 TX w/ad for "TV Facts" & ID 7:11pm in SS. 2/7- Uun WFOY-1240 FL w/longest WX forecast I've ever heard @ 5:55pm and first time I've ever heard a Florida graveyard before LSS. 2/8-KWAK-1240 AR TT/ET/OC w/ID @ 2:42am; WRSW-1540 AL s/off 6:30pm; KAAW-1310 TX on top ending NX by F 7:05pm; KXVI-1600 TX 7:16pm s/off so not fulltime yet. I tried for the KRPX-1080 TEST and found only WTIC & KRLD taking turns on top. CX to the West were poor w/KSL barely making it so KRPX didn't have much of a chance. One last question before I go: Who publishes a good FM log and what does it cost? 73. (Bruce Elving's FM Atlas, Sixth Edition, FM Atlas PUB. Co. Adolph; MN - 55701 - \$4.50 via first class mail; \$3.95, third class -ERC)

TIM'S EXPERIENCING SLOW GOING

TIM KERFOOT - 189 Cedarvale Avenue - Apt. 505 - Toronto, ON - M4C 4K1 Feb. 3, '81
..... Despite good reception lately, I have only managed one new catch since my last Muse, this morning, 2/3: WKOL-1570, in and out 7:15am. CFOR may have been on reduced power as a number of UNID U.S. stations were heard also. My info on WKOL was too sketchy for a report. Only one verie has been received this season, WTLB-1310. 73.

STAN'S BACK DXING ON MMS

STAN MORSS - Route 3 - Bradford, MA - 01830
..... 2/9- XERP in the clear at 2am with our old buddy Paul Kallinger still at it. Then 2:05, XEDM-1580 La Grande Sonora. WNSA in well on 1290 at 2:30 for another try. WTMJ-620 with Enterprise Sports Net AN Talk Show, 3am. 1280 had WGBF on AN show @ 3:30. WAWA is the latest to apply for 1200 kc/s in Chicagoland. Enterprise Sports on 1460 no doubt is WOKO, per list. WCSC-1390 note, 4am. WNBW-1290 @ 4:05, WITH-1230 @ 4:15. WQIO-1060 back in one week, says going to full time on 1070 about Nov. or Dec. '81. Ray La Rocque says WPAS Fla. is owned by ex-WRC Editor Lincoln Mayo.

A FEW WORDS FROM NEXT WEEK'S EDITOR

DAVE YOCIS - 190 East McDonel - East Lansing, MI - 48825 2/9/81
..... MIKE CSORBAJ: Toledo's 1560 is WTOD; WBKC is in Chardon, Ohio. WGRD-1410 MI has a really corny Mr. Bill (WGRD's going off the air - oh no!) s/off. 73. (here's hoping for a big turnout for your issue nextweek, DAVE!)

LET'S MAKE THE 1981 NRC CONVENTION THE BIGGEST EVER! BE SURE TO ATTEND! IT'S ON LABOR DAY WEEKEND, SEPTEMBER 4-5-6-7 in ROCKAWAY, NEW JERSEY! COME & ENJOY!

ENTERPRISE RADIO - THE SPORTS NETWORK

Table with 4 columns: Station ID, Station Name, City, and another Station ID. Includes entries like 620 WTMJ Milwaukee, WI; 640 WRLO Akron, OH; 650 KIKK Pasadena, TX; 1040 KHVH Honolulu, HA; 1070 WDLA Memphis, TN; 1190 KLIF Dallas, TX; 1240 WKDA Nashville, TN; 1260 WBBG Cleveland, OH; 1260 WNDE Indianapolis, IN; 1280 WGSO New Orleans, LA; KWNS Salt Lake CityUT; KDIA Oakland, CA; 1430 WNIC Dearborn, MI; 1460 WTAN Clearwater, FL; 1470 WNIS Portsmouth, VA; 1480 WHWH Princeton, NJ; WSAY Rochester; WYSL Buffalo NY; KTUC Tucson, AZ; WHEEL Knoxville; WOKO Albany NY; WOHO Toledo, OH; KBEA Mission KS; WRPL NewYork NY.

RICHARD NOTES SOME DOMINICAN CHANGES

RICHARD K. CLARK - Apartado 273 - La Vega, Dominican Republic
..... Well I am back in La Vega again for the next few months, then back to El Paso. I now have a 15' satellite dish antenna which will make it portable-wise, so I can watch satellite TV any place! I must say that in El Paso we do have the best radio stations & I make a lot of tapes of my music, so I can play them here, over & over again. I don't listen to local radio in this country, because I don't care for the music they play. However I do see a few changes on CCB: HIAZ-820, ex-810; HIVM-1280 ex/-1290 R. Bonao; HIJR-1470 ex-1530 R. Accion, R. Azua-1489, HIBA-1600 ex-920 R. Triunfo, Radio Haiti-Inter is inactive, XEF-1420 R. Cumbia, ex-R. Fiesta, all cumbia music! 73s

"COMEDY RELIEF"

ERNEST R. COOPER - 5 Anthony Street - Provincetown, MA - 02657 Feb. 15, '81
..... A few comments this week - I'll hold most of my DX doings for next week's Musing, via DAVE YOCIS - get ready, Dave! Some have criticized the editing, or lack of it, in cases like the logging of an Arizona and an Alberta station on a graveyard channel here in the North-East. I do not feel it is the prerogative of an editor to delete such catches when listed by a Muser, even if I believe them to be impossible. I think you all are well able to form your own opinions as to the validity of such a claim. It is up to me/what the members send in, so long as it does not offend anyone personally, I feel. Were I to refuse to print fantastic catches, then I would be setting myself up as a judge. I've had some unbelievable catches - so have you - and let's say you did successfully log a 2,000 miler on a GY frequency, and sent it in in a Musing, only to have me strike it out! You'd be furious, and rightfully so! We have had many claims over the years of some far-out DX. Back in the 30's, one guy in California claimed to be able to hear a 250-watt station in New Jersey at his high noon, REGULARLY! We've had claims of unbelievable DX from members in Ohio, Connecticut, New York City, with the expected results - the rest of the membership did not believe them! Instead, many of us, like I, took these "catches" as the "comedy relief" in an otherwise serious DX NEWS. I've heard of veries I do not believe, too, and you have too, no doubt. You all know the BCB well enough, I am sure, to know a phony claim when one comes along. I don't think it is for the editor to blow the whistle on him, or embarrass him in print, or to deny him his right to make said claim before the entire membership. If someone wants to lead with his chin, he should have the right so to do, in my opinion...Does anyone know of any kind of gadget which can be plugged into the circuit either at the RX, or the source of the interference, to eliminate or at least cut down on TV-sweep interference on the BCB? I could use one such on my tenant's portable Telly! Thanks to these kind NRCers for their calls: RAY ARRUDA, JEFF LOCKWOOD, MARK CONNELLY, STAN MORSS, FRANK MERRILL, ROD O'CONNOR, & ROLLAND LINDBLADE! CUN-7.

M O T H B A L L M E M O R I E S

CHAPTER CLXV - WFLN (AM) PHILADELPHIA - by PETER HUNN.
In the classic sense, the AM side of a co-owned AM/FM operation has usually been in full operation some years before the maiden broadcast of the FM outlet. In Philadelphia, however, the Franklin Broadcasting Co., owner of the WFLN stations, was broadcasting via FM prior to their entrance into the AM field. In July 1958, WFLN was born and joined its nine-year-old FM sister in the "bi-neural" transmission of classical music. This predated FM stereo. Franklin Broadcasting utilized WFLN-FM for the dissemination of one music channel, while WFLN (AM) sent the other. This system was rendered obsolete when the FCC approved FM stereo in 1961. As one of the only Philly stations never to change format, WFLN operates 6am to LSR w/124w, & with 1,000w from LSR-LSS. WFLN-900 employs a directional array with its towers near the Philadelphia airport. It simulcasts its FM mate's classical fare (with the exception of a brief foreign language show on Sundays) from studios in the Roxborough section of Philadelphia. The Standard Rate & Data periodical describes WFLN's programming as: CLASSICAL; Station's personalities include interviewer-commentator. Features: Ope'a, Symphony orchestras & chamber mx concerts. On 1/1/81, WFLN AM/FM switched network from NBC to Associated Press audio. "The Classical Music Stations" (WFLN/WFLN-FM's logo) distribute posters & market Bach coffee mugs, T-shirts, etc. in support of the Philadelphia Orchestra. Although not a ratings boockbuster, WFLN serves a specific, loyal audience in the classic sense, and provides those listeners with a sense of the classics. --30--