



PUBLISHED BY  
**THE INTERNATIONAL RADIO CLUB OF AMERICA**  
 WHOLE NO. 430      DECEMBER 18, 1976

**DX CALENDAR      DX CALENDAR**  
**DX CALENDAR**

|           |          |           |           |                  |       |
|-----------|----------|-----------|-----------|------------------|-------|
| NNRC Mon. | 12-27-76 | 0230-0300 | WNNO- 990 | Wisc. Dells, WI  | 1/2kw |
| NRC       |          | 0300-0330 | KOKO-1450 | Warrensburg, MO  | 1kw   |
| NNRC Mon. | 1- 3-77  | 0130-0230 | WTSO-1070 | Madison, WI      | 5kw   |
| IRCA      |          | 0330-0400 | KOQT-1550 | Bellingham, WA   | 1kw   |
| NRC Mon.  | 1-10-77  | 0100-0400 | WBRE-1340 | Wilkes-Barre, PA | 1 1/4 |
| NNRC      |          | 0230-0330 | WGLB-1560 | Port Wash., WI   | 1/4kw |
| NNRC Mon. | 1-17-77  | 0230-0330 | WEMP-1250 | Milwaukee, WI    | 5kw   |
| NNRC      |          | 0400-0500 | WLCX-1490 | LaCrosse, WI     | 1 1/4 |
| IRCA Mon. | 1-31-77  | 0330-0400 | KAJO-1270 | Grants Pass, OR  | 5kw   |
| NNRC Mon. | 2-21-77  | 0200-0300 | WDUZ-1400 | Green Bay, WI    | 1 1/4 |
| NNRC Mon. | 3- 7-77  | 0130-0230 | WHBL-1330 | Sheboygan, WI    | 5/1   |
| IRCA Mon. | 3-14-77  | 0630-0655 | WOI - 640 | Ames, IA         | 5kw   |
| NNRC Mon. | 3-21-77  | 0200-0300 | WIGM-1490 | Medford, WI      | 1 1/4 |

WNNO-990 (500w-D), no details available. Reports to John Taylor, Gen. Mgr., Radio WNNO, P.O. Box 990, Wisconsin Dells, WI 53965. Arranged by George Davis III.

KOKO-1450 (1kw-D, 250w-N) will have C&W music, tones, code and voice IDs. Prepaid calls OK to 816-747-9191. Tapes will be appreciated. Will run 1kw. Reports to Bruce Reynolds, Radio KOKO, P.O. Box 398, Warrensburg, MO 64093. Arranged by Bruce Reynolds.

WTSO-1070 (10kw-D, 5kw-N) will have regular programming with special IDs. Reports to Sherman Stern, CE, Radio WTSO, 5721 Tokay Blvd., Madison, WI 53701. Arranged by George Davis III.

KOQT-1550 (1kw-D) will have gospel music with IDs at approximately 3 minute intervals. Prepared post cards will be preferred if possible. Reports to Ron Cowell, CE, Radio KOQT, P.O. Box 1550, Bellingham, WA 98225. Arranged by Nick Hall-Patch.

WBRE-1340 (1kw-D, 250w-N), no details available. Address is 62 S. Franklin St., Wilkes-Barre, PA 18703.

WGLB-1560 (250w-D), no details available. Reports to Richard Blueborn, CE, Radio WGLB, P.O. Box 347, Port Washington, WI 53074. Arranged by George Davis III.

**FLASH TIPS**

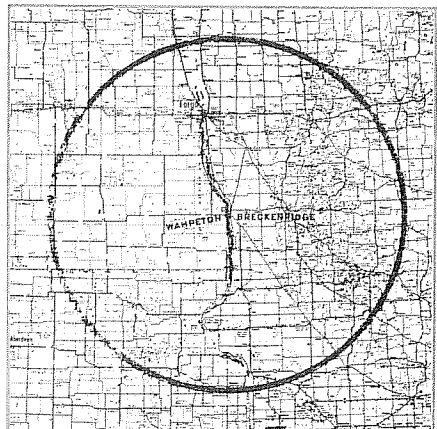
WJAR-920 had a DX Test on 12-19-76 from 0000 to 0200 or 0300 ELT, with 5kw. If anyone heard this, their address is 176 Weybosset St., Providence, RI 02903. (Kraig Stevens)

As per Bruce McFadden, KOIL-1290 is back on the air as of 12-16-76. A non-profit organization will run the station until the FCC can decide who among the several applicants will get the facilities.

Also Bruce wants to start the Capitol Cities List again, so any members with info on stations in the state and province capitols are asked to send it to 8264-B So. Yorktown Court, Tulsa, OK 74136. Info needed is on formats, sign-on and -off times, and any other pertinent information.

Tab Books has issued a new book titled Broadcast Engineering and Maintenance Handbook (TAB BOOK No. 852). Written by a V.P. and Chief Engineer of an AM and FM station, it includes info on all aspects of running a radio station from planning, construction, installation, etc., up to modification and repair of the broadcasting facilities. The price is \$19.95 hardbound, from Tab Books, Blue Ridge Summit, PA 17214.

Don't forget, we have a special deal on the '77 WRTH from Gilfer Associates. Just send \$8.45 to IRCA HQ to arrive no later than January 7, 1977. Delivery is expected to be around the end of February, or so. The retail price will be around \$10.95, and this special offer is open to members of NASWA, NRC, and NNRC.



Gateway Market to the  
**RICH Red River Valley**



**The Inside Story**

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**eastern dx  
roundup**

Editor: Mike Millock,  
Box 533  
Lorain, OH 44052

- 540 KWMT IA, FORT DODGE 11/27 1750 o/XEWA w/spot for Plummett Pontiac, football scores, wx, c&w mx., nx & s/off.(DN-NC)
- 550 WKRC OH, CINCINNATI o/unID which had Ac nx 11/14 0157 w/"Radio 55" ment., and Manilow's "Weekend in New England". (GM-NY)
- 570 WWNC NC, ASHEVILLE heard for the first time 11/23 at 1710 w/nx, then c&w mx. Weak o/u/WKBN. (DP-MI)
- 600 CFCH ON, NORTH BAY Fair o/growl o/low hets 11/21 0152 w/jx, E. Clapton mx.(GM-NY)
- 610 CHNC PQ, NEW CARLISLE in above the pile 1700 11/25 w/MoR mx, FF talk, ID, during gud NE opening. (RAM-NY)
- 620 WVMT VT, BURLINGTON 11/25 0012 u/WVNJ w/jingle...then lost. (SGA-NY)
- 660 WESC SC, GREENVILLE u/WNBC 11/17 at 1710 with c&w mx and many IDs. Fair sig. (DP-MI)
- 680 CFTR ON, TORONTO good here 11/15 0147 w/top 40 DJ. Lost u/TTer 0152. Channel pretty dead usually. WNBC off.(GM-NY)
- WCAW WV, CHARLESTON in regular in recent weeks somehow wiping out super-pest WPTF. Another strong sig 11/22 w/Dow-Jones 1640, wx 1641 & c&w mx w/Glenn Shear 1642. (GA-NC)
- 730 WLIL TN, LENOIR heard at s/off 11/17 at 1715. Weak and fading u/CHIR. No NA. (DP-MI)
- WPIK VA, ALEXANDRIA 11/22 1621 fair signal u/CKAC w/spots for John Denver concert at the Capitol Centre. (SGA-NY)
- 740 ---- unID; EE talk about Canadian Football League u/CBL 11/18 0020-22. Probably AB or NF CBC. (GM-NY)
- KRMG OK, TULSA tuned by & hrd s/off 11/21 0200. Channel pretty dead otherwise. Faint OM talking after KRMG off. KCBS??? (GM-NY)
- 770 KUOM MN, MINNEAPOLIS excellent o/WABC 11/22 at 1710 w/Minn Nx, then ID. (DP-MI)
- 820 WOSU OH, COLUMBUS trying for WAIT but came up with this 11/23. Consistent sig w/minor QRM. Sports w/Don Davis 1655, wx 1659 & nx w/Mary (?) 1701.(GA-NC)
- 830 WNYC NY, NEW YORK CITY not too difficult to hear before LSS during season. Good but fading sig 11/23 w/nx,wx, & a pitch for money to stay on the air at 1704, followed by consumers news & stocks till 1710. (GA-NC)
- 850 KOA CO, DENVER 11/21 0213+ w/phone talk show. Host gave # as 303-861-8251. This more reg here than WHDH. (GM-NY)
- 870 WFLO VA, FARMVILLE w/nx, wx, sx 11/20 at 1655 and ID at 1700. Fair u/WKAR null. (DP-MI)
- 920 CKCY ON, SAULT STE MARIE fair o/mess w/"Steel City Wx" C temps, "92-CKCY" shotgun jx, EE top-40 format. 11/21, 0219. (GM-NY)
- 950 CKNB NE, CAMPBELLTON way o/semi-local WIBX w/FF drama, ID 1745 11/22, vry gud sig, NE opening. (RAM-NY)
- 960 CFAC AL, CALGARY c&w mx then spot for Kawasaki 11/25 at 0120. Ann "it's 20 after 11 in Calgary". Clear, but fading w/CKWS QRM. WFIR gone.(DP-MI)
- CHNS NS, HALIFAX good w/MoR anncr giving time as 3:25. unID YL talk nulled. 11/21 0225. (GM-NY)
- 970 WCHS ME, PORTLAND 11/25 0110 o/u/CKCH. "Your total nx & info station". Into NIS sports. (SGA-NY)
- 990 CBW MB, WINNIPEG 11/23 1933 w/"As It Happens". Good readable sig, o/u/WIBX. 7th province. (SGA-NY)
- 1110 WHIM RI, PROVIDENCE slightly o/mess, rr mx, ID, faded back u/WGRG, others. This 0710 11/26. Very rare...only 2nd time heard in 2 years!! (RAM-NY)
- 1220 CJSS ON, CORNWALL 11/22 1722 good signal w/WGAR nulled. Spot for Bank of NS, followed by "Nx Radio Stock Rpt.", followed by spot for "Nick King for

- 1270 WLBR Mayor of Cornwall". Sounded to be either all nx or in a nx block.(SGA-NY)
  - 1290 WKNE PA, LEBANON heard 11/23 at 1635 w/wx, then spot for Sikes Savings & Loan, then rr mx. Fair in WXYZ QRM.(DP-MI)
  - 1300 WMTM NH, KEENE 11/23 2004 steady signal w/CBS nx, then local nx. (SGA-NY)
  - 1320 WKAP GA, MOULTRIE dominant over usual rough office music segued from 1719-1727 11/24. S/off at 1727 included rap about their so great mx. (GA-NC)
  - WOIC PA, ALLENTOWN 11/29 Loud on ET/TT/OC, some mx 0115-0144. (RA-MA)
  - 1340 WOOK SC, COLUMBIA 11/29 rare here, very weak way u/WKAP ET w/ID @ 0131 and in-to R&B. (RA-MA)
  - 1380 CKPC DC, WASHINGTON up from the mud for a bit 11/10 2006 w/soul format, DJ screaming "Super Soul 1340, WOOK" turntables well above speed. (GM-NY)
  - 1400 KWON ON, BRANTFORD surprise 11/30 1655 w/mx ID, nx 1655-1705 way o/CKLC, WOWW. (RAM-NY)
  - 1440 KSGR OK, BARTLESVILLE has 0115 s/off. Also has unlisted RC/TT 4th SUNDAY 0117-0130 w/IDs every minute, per visit. Tentatively heard this from John Collarmans place 11/29. (FM-OH)
  - 1480 CHRD AZ, SCOTTSDALE is KDOT's new identity, as of 11/22. Solid Gold Radio has an oldies rr format. KDOT went "oldies" in October. (FM-OH)
  - 1490 WNUS PQ, DRUMMONDVILLE good sig 0718 11/29 w/FF talk, ID, o/unID. (RAM-NY)
  - KUGR MA, WEST SPRINGFIELD fair to gud 0721 11/30 w/NNIS nx, ID, WCSS nulled. (RAM-NY)
  - WOLF WY, GREEN RIVER has been on the air since May, and has c&w format.(FM-OH)
  - 1510 WRAN TN, SYRACUSE heard 11/22 at 1720 in GY mess w/wx, then rr mx. Weak. (DP-MI)
  - 1520 WGOR NJ, DOVER likely w/Morristown ments 11/12 0212. New, never heard in the daytime. (GM-NY)
  - 1550 KWBC OH, TOLEDO 11/24 0258-0307 probably the one with talk and news at 0302. Weak with no IDs noted, w/WKBW silent. (RA-MA)
  - WIRV TX, NAVASOTA tells me that their annual PoP is normally in January, on a Saturday morning. CE thinks it will be Sat. Morn 1/15 or 1/22 from 0100-???? w/typical varied TTs, etc. Will try to find out more. (FM-OH)
  - 1560 WCNW KY, IRVINE 11/26 1729 w/spot for sock hop at Estill County Fair Barn & s/off Very good signal. (DN-NC)
  - WBKC OH, FAIRFIELD 11/28 1730 Xlnt w/s/off Ment. Broadcast Management Co. as the owner. (DN-NC)
  - 1580 KLOU OH, CHARDON heard 11/23 at 1650 w/wx, rr mx, many IDs. First time here u/WQXR. S/off at 1700. Terrible splash from WLQB (ex-WCZN) (DP-MI)
  - WSRF LA, LAKE CHARLES 11/28 2004 w/wx, "its 32 at KLOU". WCLS QRM & unbelievable QRM kept me from IDing this one for an hour! (DN-NC)
  - 1590 KEND FL, FT. LAUDERDALE 11/24 on ET/OC/some TT 0320-0410. ID @ 0340, good signal o/WCLS. (RA-MA)
  - TX, LUBBOCK dropped NIS on 10/1, now has c&w format. Still NSP. (FM-OH)
- FROM THE DX CALENDAR:
- 580 WKTY WI, LACROSSE 11/29 NNRC DX tried, but not heard on several spot checks from 0100-0200. (RA-MA)
  - 1280 KVWG TX, PEARSALL 11/29 DX Test tried, but not heard in checking freq several times quickly 0200-0300. (RA-MA)
  - 1320 WHIE GA, GRIFFIN 11/27 PoP tried, but not heard 0110=0135. Were they on??(RA-MA)
- BROUGHT TO YOU BY:
- DN- David Nelson/ 1507 Lamont Ct., Chapel Hill NC 27514/ Realistic TRF
  - GM- Greg Monti/ 5 Hickory Rd., Bayville NY 11709/
  - DP- Don Pavich/ 3514 Whittier St., Flint MI 48506 Realistic TRF; Realistic DX-160; Lafayette Guardian 7700; 100' longwire

RAM- Roger Morby/ Ushers Rd., Ballston Lake, NY  
12019/ Ross RE-3030 & 300' longwire  
SGA- Steve Apel/244-93 61 Ave., Douglaston NY  
11362/  
GA- Gregg Allinson/ 919 North Kerr Ave.,  
Wilmington NC 28401/ Realistic TRF  
RA- Ray Arruda/ 48 Woodlawn St., New Bedford MA  
02744/ Hallicrafters SX-122 & SM-1  
FM- Frank Merrill/ 1560 Brooke Park Dr., #8,  
Toledo OH 43612/ Panasonic RF-1200

Way to go, guys!!!! Looks like an outa sight  
year for DX, doesn't it??? By the way, the offer  
still goes....I'm still getting plenty of weird  
2-letter combos for states/provinces, so if you  
wanta copy of the CORRECT ones, just drop me a  
card or letter, OK? 73, and see you next week.

**central dx  
roundup**

Richard C. Evans  
P.O. Box 392  
New Buffalo, Mich. 49117

- 540 CBK SASK Regina, 11/22 0123-0203. Very good to fair w/program called "Jazz of the Vintage Years" followed by CBC Nx & s/off mentioning LPRTs in Uranium City and Lac Ronge. Only 2nd Sask logging; Cuban 90% nulled & KNOE off, but some slight QSB; rptd. (SAM) s/off 0214 11/7 excellent. (LAB)
- \*WYNN\*SC\*Florence, 11/22 0303-17. Fair to unreadable on DX Special w/1000 cycle tone broken by live IDs every 3-4 min. o/u very heavy Cuban QRM, KNOE off. new here w/stn called & rptd. (SAM)
- 620 WSUN FL St. Petersburg, excellent w/C&W Mx, many clear IDs and spot for amateur & ARRL, 0335-0403 11/15. (REG)
- KWFT TX Wichita Falls, 12/3 1808 w/spot for K-Mart & for West Optical Co. good signals. 1st time hrd in 8 years of trying. (MH)
- 730 CKAC PQ Montreal, excellent w/FF pop mx, spots, Nx 0335-0400 11/22, clear ID jingle in FF at 0400. (REG)
- 740 KCBS CA San Francisco, w/ad for new homes into CBS Nx 0300 11/29, o/KCMC. KRMG off.
- 780 KCRL NV Reno, calendar, oldies 0157 //(BEM) 11/7 poor-fair w/splash, loop precisely nulled WBEM, pointed SW. (LAB)
- 740 KCMC TX Texarkana, w/C&W Mx and ad for USO 0232 11/29. Much KCBS QRM. (BEM)
- 850\*WYDE\*AL\*Birmingham, 11/5 0125-28. Xint on ET w/various tones and C&W Mx; completely dominating the frequency, wiping out all QRM; (SAM)
- 920 KARN AR Little Rock, 0240-302, u/2 unid R&R's, w/beautiful Mx and ID. (REG)
- 930 CJCA ALB Edmonton, good 0317-0326 11/28, w/rock Mx, PSA's, ads, and IDs by DJ, weak signal lost at 0326. (REG)
- 940 KIOA IA Des Moines, w/soft rock Mx and many IDs u/o local WMIX 0327-0339 11/28(REG)
- \*WCPC\*MS\*Houston, 11/18 0103-14. Very good on what may be an unlisted r/c w/dial-tone & 1 ID at end of check; well o/WYLD & other unid QRM; this one can be hrd in the daytime around here, but never noted running a f/c before; might be a good bet for v'all who need a MS logging. (SAM) (They are a frequent visitor around here on SSS/SRS. I've cussed them out many a time--rce)
- ???? ?? unid, ID sounded like "KGOL-KGOL-FM, Mount Morrison". Top-40 format into Mx, ABC I think. Very clear ID at 1700 12/1, but no listing & have checked maps. No town coming close. Any help? possibly daytimer? (BEM)
- 1040 WHO IA Des Moines, SS talk, 2230 11/7, fair to good. (LAB)
- 1050\*WAUG\*GA\*Augusta, 11/15 0312-15. Good to fair on PoP w/various tones & Beatles' selections; 1 quick ID ending with "Good night Augusta", then off; mixing badly at times w/XEG; no answer to call but rptd. anyway. (SAM)
- \*WMNZ\*GA\*Montezuma, 11/15 0208-15. Very, very tentative on ET w/what sounded like MoR mx & IDs after every selection; badly garbled signal only hrd during rare XEG QSB; far too tentative to call or rpt. Drat! (SAM)
- 1060\*WXLX\*GA\*Milledgeville, 11/27 0143-0406. Very good to poor on PoP w/various tones, much OC & very infrequent IDs. At times, way o/WNOE & KYW, but often bothered by severe QSB; stn called & rptd on this new one. (SAM)
- 1070 ???? ?? unid, ad for "Pittsburgh Foreign Cars 1834 11/11 fair (possibly WKOK-Sunbury) any help? (LAB) (probably not Sunbury which is north central PA. How about Plattsburgh, NY, or Pittsburgh on 1080 kc.--rce)
- 1130 CKWX BC Vancouver, seems to be regular here w/easy-listening mx, though poor at 0200 11/29 w/ID. IDs as "Big Country CKWX". (BEM)
- 1140 KBIL MO Liberty, daytime DX in here while trying to log KSOO. Hrd 12/1 0900. Popped up just long enough for good level ID, then back down. (BEM)
- \*KSOO\*SD\*Sioux Falls, 11/16 0127-0300. Xint on ET w/various tones, MoR Mx and promo-type IDs; WRVA in 90% null & no sign of SS stn usually hrd here; stn called & rptd on 1st positive SD logging. (SAM)
- 1170 KVOO OK Tulsa, off again this MM 11/29, till 0200, seems to go off every MM. They are off longer on 2nd MM. (BEM)
- CKGY ABT Red Deer, ads, C&W Mx 2258 10/13 fair signal. (LAB)
- 1180 KOFI MT Kalispell, s/off but carrier kept on 0108 10/23 good signal w/slight QRM. (LAB)
- 1230 CJRB MAN Boissevain, tx, community Nx, cls Mx, 11/6 1117. Fair. (LAB)
- \*WAYX\*GA\*Waycross, 11/15 0131-33. Noted again w/good signal o/all GY QRM; this is definitely an unlisted r/c, as has been consistently hrd at the same time for almost a year. CF sends nice v/l.(SAM)
- 1260 KWHK KS Hutchinson, R&R 2256 11/10 fair to good signal. (LAB)
- 1300 WRBC MS Jackson, w/Nx by lady ancr 0400 11/29. KXXO-local off for some reason. (BEM)
- KVET TX Austin, good w/Top 40 Mx & ID at 0400 11/29, into weather. (BEM)
- 1360 WKMI MI Kalamazoo, 1730 o/KSCJ w/Nx, sports, local ads, good ID at 1730 11/16.(REG)
- 1370\*WFDK\*GA\*Manchester, 11/27 0346-52. Xint on PoP w/1000 cycle tone modulating at about 25% & long ID at 0352; tentatively logged before on s/on & rptd then w/no verie; stn called & f/up sent; absolutely no QRM. (SAM)
- \*KIKS\*KS\*Iola, 11/17 0113-18. Surprisingly good on ET w/KFRO 85% nulled; 1000 & 500 cycle tones & brief periods of OC, 1 ID w/call-letters repeated 3 times; 1st hrd last season w/v/l received in about a week; happy to relog this one.
- 1380 WLCY FL St. Petersburg, 11/25 0330 w/RR (SAM) & ID as "the great 138". (BEM)
- 1390 WROA MS Gulfport, u/WFMJ TT w/Nx, Wx, and gulf rpt 0135 11/29, into Dobie Gray. (BEM)
- \*WFMJ\*OH\*Youngstown, testing w/tone part of early morn. 11/29 Very strong & good ID 0130. (BEM)
- 1410 KRIG TX Odessa, w/quick "Top-40-like" ID into Mac Davis 12/1 0258. Was looking for WING. (BEM)
- 1420\*KJCK\*KS\*Junction City, testing w/TT. very strong w/much KELI QRM. (BEM)
- 1450 KGCA ND Rugby, ads for Rugby, 1018 11/6 fair
- KAYC TX Beaumont, the only one on here //(LAB) 0400 12/2 w/Top 40 & SID. Good sig(BEM)
- ???? ?? unid, 11/16 0245-48. Another GY mystery tester running what may be a r/c which possibly begins at 0230; 1000 cycle tone w/IDs roughly every 3 min; 1 badly mangled version punching thru typical GY QRM sounds like "KOLV; Gallup,NM", but no such animal exists; any help? In the meantime, will try for this one again next month. (SAM)

1460 WKOK LA Baton Rouge, w/SID o/WACO/KSO 12/1 2400  
 KRNY NE Kearney, 1745 11/16 good w/Wx. //(BEM)  
 ad for Evelyn Wood course at Kearney  
 Holiday Inn, other local ads and pop  
 mx. (REG)

1470 KWSL IA Sioux City, hrd very well, all alone on  
 channel w/Top 40 mx and ID 12/2 0330.  
 X-KTRI. (BEM)

1490 KIIQ CO Manitou Springs, hrd very well w/Top 40  
 & Am. Info Nx at 0300 12/2. My log has  
 this stn listed as KFEL. How old is  
 this stn? Or am I behind the times, hi.  
 (BEM) (According to Broadcasting Year-  
 book, the stn went on the air in Nov.,  
 1956--rce)

KNOX ND Hettinger, ID, local Nx 1200 11/6, fair  
 with QRN. (LAB)

1510 KMSD SD Millbank, local & intl Nx 0940 11/7  
 good w/slight unid QRN (LAB)

WAUK WI Waukesha, clx mx 1700 10/17 fair  
 w/Fair QRN. (LAB)

1530\*WHIY\*AL\*Moulton, hrd on ET 11/25 0112 w/  
 strong signal o/WCKY. Called and  
 reported. (BEM)

1550 WCVL IN Crawfordsville, 11/21 1711 w/local  
 Wx. 1st time hrd in 7 years of trying.  
 Good signals. (MH)

1560\*WYSE\*FL\*Inverness, 11/16 & 20 0230-45. Noted  
 ETing both morning at about the same  
 time w/C&W Mx & sporadic IDs mention-  
 ing power of 5000 watts; disappointing  
 signal for the power, often o/u CHMG  
 QRN; as yet, no verie recvd to rpt of  
 a month ago. (SAM)

\*KRCB\*IA\*Council Bluffs, 11/21 0220-24. Good  
 to fair on ET w/1000 cycle tone, brief  
 ID, then off; slight CHMG QRN; hrd be-  
 fore, and after a phone call & rpt w/  
 no response, an apparent non-verifier.  
 (SAM) (I've got a v/c from them--took  
 86 days--rce)

1570\*KLLA\*LA\*Leesville, 11/25 0116 fair on ET with  
 QRN. ID w/female ancr. Called & rptd.

1590\*KKAY\*LA\*White Castle, hrd on ET, very //(BEM)  
 good signal w/Mx & IDs. No TT. I called  
 & they said they've been on for 3 days  
 operating on 1/2 kw. They tested with  
 tested w/full power tho. 0238-0243  
 12/1. (BEM)

KUUU WA Seattle, Much to my delight w/RR &  
 "K-U 16" IDs o/u KEND w/good signal.  
 12/2 0200. State #33 for me. (BEM)

1600 KCRG IA Cedar Rapids, w/ID hrd down under  
 KATZ, a much detested regular. Much  
 like WWRL back east, not a good  
 signal, but usually the one & only  
 stn there! 0100 12/2. (BEM)

KOGT TX Orange, w/s/off 0100 12/2. My log says  
 MM off only. Good signal considering  
 it beams its signal toward the Gulf.  
 (BEM)

PER THE LIST:

1st WED: KANE-1240 LA (BEM) 0130-0145  
 WFLI-1070 TN (BEM)  
 1st THU: WKCB-1540 KY (BEM) off at 0421  
 4th SAT: KFLN- 960 MT (BEM)

A TIP OF THE HAT THIS WEEK TO:

LAB - LUDO A. BERTSCH, 3905 Hillside Street,  
 Regina, Saskatchewan S4S 3Y6  
 REG - ROB GERARDI, 1401 North Main,  
 Benton, Illinois 62812  
 MH - MIKE HOGAN, 9224 Cottage Grove Avenue,  
 Highland, Indiana 46322  
 BEM - BRUCE E. McFADDEN, 8264-B S. Yorktown Ct.,  
 Tulsa, Oklahoma 74136  
 SAM - SCOTT A. MENTZER, Route Three,  
 Tylertown, Mississippi 39667

This column includes about four reports which were  
 received here and promptly misplaced when I moved  
 a couple of weeks ago. They were discovered here  
 12/7. I'm just as happy that they weren't included  
 in last week's column, anyway, hi. Back on screwed-  
 up hours at work again. Should straighten out soon  
 after the first of the year. Gotta run. 73.

**THE STATION THAT'S ALL HEART  
 K S J B BIG 600**

NANCY HARDY, Editor

2301 PACIFIC AVE.

ABERDEEN, WA 98520

**western dx roundup**

ALL TIMES ARE EASTERN LOCAL

DEADLINES: Dec. 23, Dec. 31, Jan. 7, Jan. 14

REPORTERS FOR THIS ISSUE:

(JJ) Jef Jaisun-12860 136th NE-Kirkland, WA 98033  
 Hitachi SR-301 stereo, wedge

(DKK) Don Kaskey-386 Geary St.-San Francisco, CA  
 HQ-140X, SM-2 94102

(ASL) Albert Lobel-10514 Caminito Baywood-San Diego  
 Realistic DX-150A, Sanserino CA 92126  
 loop, 60' E/W longwire, 34' N/S longwire  
 \*\*\*\*\*

550 KFYR ND, Bismarck 12/6 0645-0652 medium key  
 announcer playing Elton John, spot for  
 Drunstick Cafe, TC "9 min. before 6 at  
 KFYR--All the radio station you'll  
 ever need." (JJ-WA)

580 KCMX OR, Ashland 11/29 0127 w/special prgm  
 by Mormon Tab. Choir, "KCMX" ID before  
 going into MTC, out of C&W mx. (JJ-WA)

600 KCLS AZ, Flagstaff 11/29 0909 w/song "You  
 Gave Me a Mountain" followed by fast &  
 slurred "Golden Memories...KCLS on a  
 Monday morning." Followed by Budweiser  
 beer spot. In null of local KOGO. TC  
 given as 0710. (ASL-CA)

610 KVNU UT, Logan another long awaited took  
 over after CJAT s/off. Had rock and  
 IDed as "Super 6-ten." 24 degrees at  
 0410 11/30. Fair signal, not as steady  
 as CJAT. Several other stations u/KVNU  
 but too sleepy to care. (DKK-CA)

610 CJAT BC, Trail 11/30 w/KFRG off, noted nice-  
 ly atop 0330-0400 w/rock. Nx & wx to  
 0402 then s/off anct. invited listen-  
 ers to tune to CKOK then GSO. First  
 time in 19 years of trying from CA.  
 (DKK-CA)

630 KGVW MT, Belgrade 11/29 0842 sneaking up o/  
 KIDO just prior to KGDN s/on. Spot for  
 Federal Savings & loan, wx for Bozeman  
 area, gospel mx. (JJ-WA)

640 CKNB ?? 12/6 0705 1/2 NE loop. You & I both know  
 this is CBN's frequency, but I heard a  
 definite nx outro "When you see news  
 happening call CKNB." KFI easy null. Am  
 I nuts or does CBN run // CKNB? (This  
 AM also hrd WTIC & possible CBY, as per  
 990 & 1080 listings). Can you BC guys  
 help? (JJ-WA)

690 CFRG SK, Gravelbourg 11/23 2105 w/FF sounded  
 like soccer or hockey play-by-play. Weak  
 u/CBU, KIRO-710 slop. (JJ-WA)

740 CBL ON, Toronto 12/6 0400 in w/nx about  
 Toronto, etc. (JJ-WA)

750 KFQD AK, Anchorage 11/29 0540 John Brown  
 playing hot rock--Midler, C. Richard,  
 Lightfoot. TCS and IDs. Heard on a  
 hunch after hearing KANC slightly ear-  
 lier. First time since 1963 for KFQD  
 (then 730). (JJ-WA)

950 KYES OR, Roseburg 11/28 atop XEGM et al 1028  
 w/ID and light rock. (DKK-CA)

980 KFWJ AZ, Lake Havasu City 11/29 0831 w/spot  
 for Quality Auto Parts & Machine. Phone  
 numbers given were 855-2171 & 855-7874.  
 The first number checks w/Mountain Bell.  
 ID "We'll have...wx for you on KFWJ."  
 Heard in KFWB null. (ASL-CA)

980 KVLV NV, Fallon 11/28 1846 thru KOMO-1000  
 slop and CKNW QRN, poor readability,  
 mx Ramblin Rose "From KVLV..." (JJ-WA)

980 CKRM SK, Regina 11/23 "Country Music CKRM"  
 ID, C&W mx. In CKNW null, no sign of  
 KFWB. (JJ-WA)

990 KKIS CA, Pittsburg 12/6 0202 w/a special  
 International program. Sounded like  
 they were asking for reception reports.  
 Followed by mention of Walnut Creek  
 then soft mx. (ASL-CA)

990 CBW MB, Winnipeg 12/6 0200 just after XECL  
 s/off w/CBC News and ID "CBC Manitoba."  
 (ASL-CA)

990 unID East Coast Had to be east of CBW, coming in u/weak but steady. Slush EZ mx at 0725, hrd possible Yankee Doodle theme or pips at 0730, slow slushy organ mx, Tony Bennett, etc. "Old Fashioned Walk" inst. at 0742, talk 0750. Looped identical w/CBW. Not WKLV or WIBG. Knocked out by SS rancho mx, & CBW 0753. Could it be CBY? Help! (JJ-WA)

990 unID 12/6 0753-0758 SS rancho mx on ENE/WSW loop (CBW) Is there a domestic w/this? (JJ-WA)

1020 KCBQ NM, Roswell never bothered to get definite ID since they changed calls so stumbled onto this one 11/27 at 0950. Excellent signal. (DKK-CA)

1030 KCTA TX, Corpus Christi w/fine signal 11/29 0645 after nx w/ID. Then into relig. program. All in EE. (DKK-CA)

1060 KRSP UT, Salt Lake City 12/5 0900 out of relig, KRSP jingle ID, into talk & relig mx "Let's Have A Song About Jesus." KPAY QRM. (JJ-WA)

1080 KANC AK, Anchorage 11/29 0517 YL DJ playing soul rock. "Music Radio KANC", spot for Fireplace Lounge. Drake jingle ID. XEPRS & KING-1090 OC QRM. First time here. (JJ-WA)

1080 WTIC CT, Hartford 12/6 0531-0558 talk jock Bill Corsair w/phone calls, PSA for Crime Prevention, finally heard WTIC mentioned at 0558. Blasted by KRLD s/on at 0559. (JJ-WA)

1090 KAAZ AR, Little Rock 11/29 0615 ID out of UN Weekly Report "Clear channel 50,000 watt KAAZ, Little Rock." Into World Tomorrow. 0646 UPI sports scores, 0647 wx and ID. New state. XEPRS having big transmission trouble, easy null tonight. (JJ-WA)

1230 \*KQIK\* OR, Lakeview 12/6 0305 on rc w/code IDs in couplets and 1 kHz tone. Poor. Hrd no vocals. (JJ-WA)

1250 unID 12/4 2230-2235 Indianapolis-Houston hockey, end of game, post game show. No ID or geographical reference. Have ruled out WGL & WPAC per phone. Probable midwest, mixing w/WREN, o/u KWSU w/KYAC off. Ideas? (JJ-WA)

1280 KJOY CA, Stockton 12/4 1953 blip ID on spot outro "keep listening to K-JOY, an East-West Production." (JJ-WA)

1380 KTOM CA, Salinas 11/23 2009-2015 skipping in u/KRKO w/C&W mx, spots for Salinas Auto Stereo, Lem's Dept. Store. (JJ-WA)

1380 KGMS CA, Sacramento 11/23 2019 "We at KGMS would like to remind you..." plus KGMS outro. Sounded like a PSA. Wiped by KTOM. (JJ-WA)

1400 \*KXGN\* MT, Glendive 11/29 0216-0332 on for POP. Ran a mixed bag of tones, sweeps, etc. First ID hrd at 0332. CE Don Powers. (JJ-WA)

1420 KSTN CA, Stockton 11/29 0455 w/good signal. Gave phone # of 948-TALK (= 948-8255). First time in many moons since I heard this one! XBXK off. (ASL-CA)

1430 KTYN ND, Minot 11/29 0746 mixing w/KLO, some kind of phone-in or pre-taped show, sponsored by ? Electric Supply Co. Minot. (JJ-WA)

1430 KELI OK, Tulsa 12/6 0557 w/wx & ID way u/QRN. (ASL-CA)

1440 WHHY AL, Montgomery 12/5 0715 blasted in my headphones as I was ablut to nod out. Possible LT power boost got 'em here. "WHHY...Billy Jack(?)...(fast rap)... 884-1440!" Lots of disco soul mx, fading in & out till wx at 0737+. Mixing w/KEWI and possible KMLB. Love those new states! (JJ-WA)

1450 KTIP CA, Porterville 11/29 0517 w/many "K-TIP" IDs and mx. Deep fades. (ASL-CA)

1460 KVRE CA, Santa Rosa 11/23 1952-1958 "Colinda" Cajun tune w/Fiddleman Frenchie Burke, into s/off, complete w/addresses for studio and xmtr sites. Brian Dahl DJ. (JJ-WA) One of my closer unheards finally dug out from u/KDON 11/24 1930-2030. Time & ID 1957, C&W mx. (DKK-CA)

1480 unID 12/6 0325 who was testing here w/TT. No ID heard. Was in KWIZ null at appx. 45°. (ASL-CA)

1500 KSTP MN, St. Paul 12/6 0533 w/wx followed by ID "The Music Station K-S-T-P." (ASL-CA)

1500 unID 12/6 0540 lots of TT this 1st MM. Hrd o/KSTP & KXRX. No ID, gone by 0550. (ASL-CA)

1510 WLAC TN, Nashville 12/6 0528 w/mention of Nashville & call letters in null of strong KGA. Talk of Family Bible Book, c/o WLAC Radio, Nashville, TN. (ASL-CA)

1510 unID 12/6 0340 another one w/TT on this freq. Had variable pitch TT. Ideas anyone? In KGA null. (ASL-CA)

1520 KACY CA, Port Hueneme 11/23 1923 skipping in u/KYXI w/hot jock rock, "Kay-see 152" ID, Fotomat elves. (JJ-WA)

1520 WKBW NY, Buffalo 12/6 0510 w/nx by local announcer followed by sports. Many WKBW IDs heard. (ASL-CA)

1530 KFBK CA, Sacramento 11/27 1830 hrd well on car receiver while driving through San Clemente on way to Los Angeles. First time ever hrd that early. Had NIS nx & local nx. (ASL-CA)

1530 WCKY OH, Cincinnati 12/6 0500 w/CBS news followed by Garner Ted Armstrong Show. KFBK off. (ASL-CA)

1560 WTAI FL, Melbourne 11/29 0710 spot for John Bell, Inc. located at 2401 ...in Melbourne, 727-3312. ID "All country, WTAI" Second one from FL in as many weeks, & last week it was my most wanted state. (ASL-CA)

1560 WSDL LA, Slidell 11/29 0711 good ID heard immediately after WTAI ID, "WSDL Slidell...27 degrees." Another new station but not a new state. (ASL-CA)

1560 WCNW OH, Fairfield 12/6 0842 heard blip calls while looking for WDXR. U/KKAA, also mixing w/unID SS. All were cremoraed (Did you just make up that word?-NH) by KPMC s/on at 0843. A pox on Bakersfield. (JJ-WA)

Quite a long column considering only three reporters. Hope you all have a happy holiday season. 73

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**western dx forum!**

THURSDAY  
DEADLINES

EDITOR: RICK HEALD  
1581 - 20th AVENUE  
SAN FRANCISCO, CA.  
94122

=====

DON KASKEY-386 GEARY STREET-SAN FRANCISCO, CA 94102  
+++++

OK, OK, Heald, drop the contract, I'm reporting! (Who.....me?-RtH). Enjoyably I've managed a goodly amount of DX time this Autumn, with favourable results...Married life & my work schedule make pre-dawn DX much easier this season. Asians have been consistent from early September. Cx were quite gud in Sep & Oct, but dipped somewhat in Nov. However, did note considerable improvement on 11/28, 29, 30. Favourite freqs are 830-890 range, esp 840 & 880. Hmmm, while typing this at 4.20pm local time, KUTY solid atop KNDE. Where oh where is KDUN whom I still need? Heald, if you say Reedsport, OR..... (Who, me? I wouldn't have ever thought of saying that.....1470 maybe, hi-RtH). Have tried for Cayman 1555 several times. Hrd Yellow Bird IS once, but no definite ann as yet. No DYLA either for that matter. Wonder if the het I had on 1425 last MM could really be Thule? No matter, there wasn't a trace of vx. Probably some Klutz nearby had left his TV on all night. HLDA 1570 was giving EE lessons, primarily on how to come out of the rain, "You are soaking wet" etc, etc. (Gee, I didn't know NHK was selling their prgms to S. Korea, hi-RtH). Their sig was solid too. Unfortunately, my tape recorder is in the shop or I would have a very funny tape. XEBBC now atop 1470 @ 4.26pm....KPRC was off 11/30 & in 15 min I logged two stns for the first time, (CJAF and KVNU). Pays to be persistent. Am leaning heavily toward the tape collection since I lost several hundred of my best veries couple yrs back. Just can't get enthused anymore about writing for veries after the shock of that loss. Look forward to seeing Randy Seaver & family at Christmas time.....73 de DKK

AL OGRIZOVICH-1606 JACKSON ST #4-SIOUX CITY, IA 51105  
+++++  
Hi group! Long time, no see. Well, no wcrder, I made the big move from the summit city to Sioux City, IA where I am currently the all night person at 1470 KWSL. (Where's my verie, only 11 yrs ago, hi-RtH). Finally getting to play rock and roll instead of MoR. Really like working here. So far since my stay, we've received a few reports. A couple from Canada and a couple of Norways. If you happen to catch John Kingston on the Aner, it's me. As for DX, I really don't know what the animal is anymore. Can't find the time or interest anymore to tune around the dial. So, I decided a few months ago I won't renew the IRCA subscription. Really like the club though. Good to see Frank Merrill a few weeks ago as he was on his way out West. Well, folk, best of X to the ones that do and sit or it to the ones who don't. (Sorry to see you leave, there's much more to IRCA than just DXing, you know.....Forwarded to WDXF by John Zondlo-RtH).

BRUCE E MC PADDEN-8264B S. YORKTOWN CT-TULSA, OK  
74136  
+++++  
Well, I've got my Hammurlund back now and have been listening quite a bit. Totals go like this: 165/109, 29/26, 2/2, cap cities 20/18. Has there been a NRC Domestic Log Formulated since 1972-3? (Yes, twice since then. Costs \$6.50 to NRC members...I think... at: NRC Publications Centre, P.O. Box 401, Gales Ferry, CT. 06335-RtH). Phone calls welcome here, no collect calls pls, 1-918-299-4234. How does EX-Records wrk, only the top 25 get entered? I plan on entering the DX Contest. Let's see everyone in on this. I'm trying to keep up w/all the call changes, it seems I need a new log. Cx were good to excellent all last weekend 11/21&22. New stations coming in from everywhere. Picked up states 30 & 31 in IN and AL. Totals now 185/134, 31/29, 3/3, and Capitol Cities 21/19. DX TESTS from SC & TX didn't come in here MM 11/22. I though SC would make it. Nothing else here, 73. (Two short Forums joined together, & two lines deleted as result, no content loss. Also, forwarded by John Zondlo-RtH).

West of the Mississippi - RtH  
East of the Mississippi - jz

ALBERT S. LOBEL-10514 CAMINITO BAYWOOD-SAN DIEGO, CA. 92126 Phone: (714) 566-0092  
+++++  
I've mentioned it in the Advisor and just in case a few of you haven't noticed it yet, I'll mention it here. PLEASE, BE SURE TO ENCLOSE A SASE IF YOU EXPECT A REPLY FROM ME -- NO SASE EQUALS NO REPLY! Only exceptions are when I so state in writing. Also, my name is "ALBERT" and that is what I prefer to be called; please do not call me Al; it's too vague a name and can be used for 35 names that I know of off-hand. DX has been great around here lately; see my recent reports to WIXF & DXWW for details on my recent DX. Remember, phone calls are welcome at any hour on Monday Mornings; just be sure it's a MM!!! I don't like being waker on other mornings when I'm not DXing, but sound asleep; and neither does my wife Helene! On Mondays, the bell won't ring, but I'll know you're calling. Well, 'til next time, 73 and good DX.

HM2 MIKE HARDESTER, USN-NAVREGMEDCEN-BOX 2723-APO SAN FRANCISCO, CA 96331  
+++++  
For now, the above address will suffice, but another change will come around the end of Feb 1977 when the Navy assumes command of the Army Hospital. That switch should be the final address switch until Jun-Jul '79 when I rotate back to the states. DX here has been very sporadic. I'm in a barracks (talk about poor bookings by a poor travel agent), with fluorescent lighting fixtures (with at least half needing new starters) and a QRM lvl you wouldn't believe. Still, I did manage to log and QSL the local VOA 1178 (full data Capitol Card). Seriously, its signal S of the XR site is only fair at best...talk about directional antennas. For those who haven't logged/QSLd VOA 1178 on Okinawa, you'd best be doing it soon, because VOA is preparing to pull out of Okinawa within the next few months (or so they say). Local APRTS station on 650 is pushing 10 kw day/night, but for the most part, the programming is poor. Mostly oldies, but local daytime is a mixture of junk...only my opinion. Still, when you're the only EE station transmitting on the island, you page 154 December 18, 1976

more or less have a captive audience. Serious DXing won't occur until after the first of the new year; my gear, loops, etc won't arrive until Feb-Mar 1977. At present, I'm trying to get organized for my wife's arrival....a bit more important than DXing! Best of DX and 73. (That's what you get for using Uncle Sam as your travel agent. I would have booked you into a hotel where their fluorescent lights, neons, and light dimmers would generate QRM, hi-RtH)

BILL HARANG-811 NEVADA AVENUE-SAN JOSE, CA. 95125  
+++++  
Several months ago, I received an interesting tape from my good friend, Jim Korn. It's a tape of KDWNS 1st night of broadcasting (04/07/75). Here's some of the airchecks: At 11.11 PLT, Jack London said, "You know, how they got their start in show business. They won a talent contest that was set up by a radio station in Los Angeles---KHJ (in fact) to be exact. They won the talent contest and as part of the prizes as the winner of the contest, you receive a recording contract from a company. I don't know if it was A&M that they recorded on or not. But they started it that way and they've ever since been just super. I speak of Karen & Richard, the Carpenters together." At 11.27, Jack said, "Thank you, Tony Brown for the fine phone call! Tony is the Program Director of radio station KRAM here in Las Vegas. And he called us up to say Hello and Welcome Home and good things like that there. Thanks again, Tony!" At 11.30pm, Jack said, "I want to thank everybody for the fine phone calls that we've received all o/ the WC tonight. We've heard from folks in Phoenix & Los Angeles and Fresno and Bakersfield and San Jose and Santa Cruz and Pleasant Hill and San Francisco. And Atascadero, CA which I've never heard of in my entire life called us tonight and put themselves upon my map now. And also, Riverside, CA, a nice phone call. Of course, all you fine folks here in town, in Las Vegas."

FATHER JACK PEJZA-212 S. CARPENTER RD-MODESTO, CA. 95351  
+++++  
After being reprimanded in person by the esteemed editor of this column for failure to report, I feel that I must at least acknowledge the fact that I still am alive, although not doing much DXing. Since the beginning of school I have been so busy that I haven't had the opportunity to DX much in the evenings at all (although for the last 6-7 yrs, I really haven't DXed as much in the 1900-0000 PLT time slot anyway), and I've been too interested in getting some shuteye to set the alarm to get up early. This year it seems that at least once a week I have a meeting that lasts past 2300 PST and as a result, I just haven't bothered to get up early. Anyway, I was in San Francisco for a workshop on Nov 15, so I called Rick Heald and dropped in to see him in the evening. Eric Rittenhouse and Jim Korn also were there, so had an opportunity to chew the fat and find out what's new (and my favourite correspondence files too, hi-RtH). I've been monitoring 790 trying to see if the new Clovis station is on, but haven't hrd anything yet. I hope to get down to San Diego o/Christmas vacation for a couple of days, so may be able to see the newest DXer in the Seaver family. (Surprise! They'll be in S.F., hi-RtH). For new members, I am part of "The Establishment", being a former editor of DXWW and DX Monitor, as well as a Board Member and ANARC representative.

RICK HEALD-1581 20th AVE-SAN FRANCISCO, CA. 94122  
+++++  
Whew! Nice section this week, thanks gang. But, there is still plenty of room for YOU. And let's hear it for the Rockies and Midwest. Come on gang, anxious to hear from all of you too, good start this week. Not much new. Locally, after 25 years at KCBS, morning news personality, the man probably most responsible for KCBS's #1 ratings, is leaving or rather has left KCBS to become Anchorperson at KPIX ch 5 (Westinghouse/CBS). A bad mistake, I feel, as ch 5 has a very bad track record for longevity of their newpersons. They (ch 5) feel he will be great for San Francisco as he is a native San Franciscan and probably knows The City as well as world famous newspaper columnist, Herb Caen. The adult humour on morning drive radio is now gone, & KCBS has lost a morning listener, me. So, after all these years of arising at 0400, Dave McElhatton will be keeping night hours. Have tried for the TPs in the 700-900 kc range, but that darn garbage from FM, KFOG/KSFX is there and getting worse. In reply to a

recent question, I am trying to convert, as you all might have noticed to the Metric system, as the USA is one of the few countries left on the old English system. If you don't know it (Metric), learn it. It's not that hard. Also, I still, as many have noticed, insist on kc or kc/s instead of kHz. This is meant in a humorous vein, but cycle is what a kilo does and Hertz rents cars, hi. Why should we rename what is natural for a man? A cycle is a completed circle, which is what a radio signal does. It doesn't Hertz around at 900 kilocycle per second, does it? I really don't care what the FCC has adopted, what do they know? They have no knowledge of radio, let alone engineering, they are political appointees & nothing more. And by the way, the word Kilocycle, is METRIC!!! Of course, I am referring to the FCC in Washington, not the regional field offices, but then, some of them aren't too smart, though we have a few smart cookies, as was our guest speaker at the Convention. Father Jack, I prefer to think of it as gentle persuasion in asking you to report. Denying you beer and pizza at my place, had you not, had absolutely no bearing whatsoever, hi. See you all in 7. 73 de Rth..

**DX  
Worldwide**



**BRUCE PORTZER,**  
Editor

All times GMT/UTC  
Deadlines 12/24 & 31  
then Saturdays again

7021 Sand Point Way N.E., #215, Seattle, WA 98115, 206-522-2521

**ATLANTIC DX ROUNDUP**

- 164 FRANCE, Allouis at 0426 to past 0511 w/FF mx, anmts, TG at 0500, ID, lively mx all on tape! 12/3 & 12/4. (Young,CA)
- 209 MOROCCO, Azilal, AA anmts by male voice. Typical mx to past 0236. Chants at 0239. Strong & on tape! 12/3 & 12/4. (Young,CA)
- 529 ALGERIA, Afn Beida fair w/AA style inst mx 0528 12/6. (Connelly,MA)
- 548 ALGERIA, Oran ultraloud w/female AA chant, mutilating CFNE 0514 12/4. Audio had the echoey acoustics of a large room. Noted also on 12/6 at 0536; weaker level. (Connelly,MA)
- 584 + SPAIN/TUNISIA, correct time & date was 2224 11/5 (cf DXWW 11/20/76). (Eckman,PA)
- 647 ENGLAND, Daventry, BBC carrier noted here w/o audio in KFI splash 0435 12/3 & 12/4. (Young,CA) --- poor-fair during mediocre opening, talk in EE 0515 12/6. (Connelly,MA)
- 719 PORTUGAL, Norte loud & dominant on TRF w/man in PP; WGN present as feeble background het 2347 12/1. (Connelly,MA)
- 764 SENEGAL, Dakar xlint, whalloping WJR & WABC on TRF, man talking in AA, then chants 2345 & 2358 12/1. (Connelly)
- 773 SPAIN, Caceres et al louder than WABC on car rx w/man in SS topping bad het 2132 12/1. (Connelly,MA)
- 773 t MOROCCO, Sidi-Bennour listed in back of WRTVH; AA singing 0610 12/4. (Young,CA) (This may have been Spain, Jim; they're widely hrd on the EC, whereas, as far as I know, Morocco hasn't been hrd in NA & may not even be on the air. bp)
- 782 PORTUGAL, Miramar devastating WBBM on Realistic TRF w/pop mx, vocals, 2357 12/1. (Connelly,MA)
- 818 ANDORRA/MOROCCO, Sud R. dominant w/FF talk & FF vocal 0505; Rabat taking over w/male AA chant 0507 12/4. (Connelly,MA)
- 818 t ANDORRA, Sud R. assumed at 0537. Light mx & some talking, doubt Egypt. Hrd 12/3 & 12/4. (Young,CA)
- 818 MOROCCO, Rabat here 0255 w/chanting AA mx //209. Talking & anmts 0259, ID & marching anthem & off at 0301 12/3 & 12/4. (Young,CA) --- alone, topping HJED het at fair readability w/AA chant 0517 12/6. (Connelly,MA)
- 827 ? UNID female AA chant w/flute accompaniment at potent level atop others, seemingly not //818 0518 12/6. (Connelly,MA)
- 827 t MOROCCO, Oujda, AA singing 0614 12/4. Male voice in AA 0618. (Young,CA) (Libya also a possibility. bp)
- 845 t ITALY, Roma seemed like the end of a ncast 0541. MF voices in II (?) & light mx 0544. Strong for only a few mins 12/4. Weak on 12/4. (Young,CA)
- 854 SPAIN, Marcia, RNE here w/Peru het 0542 12/3. Other TAs make Peru unlikely the stronger. In fact most IAS

- very weak this evening. (Young,CA) --- fair w/SS talk, then cl mx; WHDH running OC (so no splash problem) 0520 12/6. (Connelly,MA)
- 863 FRANCE, Paris, FF talking at 0616 12/4. (Young,CA)
- 881 ENGLAND, Washford, BBC seems to be EE 0544 w/pop mx, talking on 12/3. (Young,CA)
- 926 ? UNID, AA chant here, fair low audible het on low side likely from an LA 0522 12/6. (Connelly,MA)
- 935 MOROCCO, Agadir, AA mx 0620 w/other Morocco stns good. Talking by male voice 0629 12/4. (Young,CA)
- 1016 TURKEY, Istanbul, Turkish mx 0414 12/4, male voice in language at 0417. (Young,CA)
- 1016 WEST GERMANY, Mainz possibly the one here w/mx 0333 mixing w/Turkey on 12/4. (Young,CA) --- hitting strong peaks w/"Apache" by Jorgen Ingmann, then GG talk, taking occ deep fades but at all times dominant of Turkey SAH 0550 12/6. (Connelly,MA)
- 1034 PORTUGAL, Porto Alto assumed w/voices 0332 12/3 & 12/4. (Young,CA)
- 1043 MOROCCO, Sebaa-Aioun, AA singing here 0622 along w/other Morocco stns 12/4. (Young,CA) (This is the first rpt I can remember getting on this one. Interesting.bp)
- 1052 t ENGLAND, Start Point carrier here 0432, maybe EE at 0433 talking 12/4. (Young,CA)
- 1088 ENGLAND, Crowborough, EE by male voice shortly in at 0442 12/3. (Young,CA) --- BBC xlint, well atop presumed Albania; man in RF w/"BBC World Service" ID 0545 12/6. (Connelly,MA)
- 1106 EGYPT, Batra presumed at 0435 12/4. Typical mx seemed like area. (Young,CA)
- 1124 ? UNID carrier here 0331 12/4 but no audio. (Young,CA)
- 1151 t BULGARIA, Cluj, could this be? Here at 0328 w/orch mx on 12/4. (Young,CA) (Dunno, Jim. Where was the KIIS slop? bp)
- 1187 t HUNGARY, Szolnok, male voices talking in lang at 0328. What else? 12/4. (Young,CA) (I can't find any rpts of this one in the last 3 FIs. R. Caroline or TGT are much more likely. bp)
- 1187 INTERNATIONAL WATERS, Caroline/Mi Amigo good w/movie theme mx, DD talk o/SAH 0542 12/6. (Connelly,MA)
- 1196 WEST GERMANY, Munchen, VOA, GG talking at 0328, mx at 0329. Terribly weak audio. Seemed like there could have been 2 carriers. 12/4. (Young,CA)
- 1205 FRANCE, Bordeaux, FF talking 0437 here on 12/4. (Young,CA) --- carrier & weak audio all evening 0350 12/3. (Manning,CA)
- 1214 ENGLAND, Washford et al in w/symphony mx & EE anmts in & out all evening 0340 12/3. (Manning,CA)
- 1214 ENGLAND/ALBANIA, the 2 here at equal strength, both w/talk 0510 12/6. (Connelly,MA)
- 1214 ? UNID, (Albania w/African lang?) def lang similar to Swahili here 0315, noted to past 0326. Although Tanzania listed, how could this make it to WCNA? Strong audio during entire time monitored & male voice the only pgm 12/4. (Young,CA)
- 1268 WEST GERMANY, Neumunster, female voice in GG 0453, mx at 0457 12/3. (Young,CA)
- 1277 FRANCE, Strasbourg, FF pop mx here 0510, male voice at 0512 12/4. (Young,CA)
- 1286 t CZECHOSLOVAKIA, Prague, female voice at 0454 seems to fit the time & format. This is supposed to be the FS MW outlet, listed, but not at this time(?) 12/3. (Young) --- fair w/Slavic talk by woman; 1 kHz het on low side 0538 12/6. (Connelly,MA)
- 1313 ? UNID, carrier w/SAH, traces of opera mx 0537 12/6. (Connelly,MA)
- 1376 FRANCE, Lille, carrier here assumed to be France at 0455 on 12/3. (Young,CA) --- fair w/talk & mx 0555 12/6. (Connelly,MA)
- 1394 ALBANIA, Lushnje good, better than 1586 sig w/Slavic talk by man 0532 12/6. (Connelly,MA)
- 1403 GUINEA, Conakry, finally found fair audio on this one 0620-0629 11/27 -- a voice speaking FF, but hard to say whether male or female, followed by mx on banjo-like inst & a vocalist in a wailing kind of song. This stn has been found here almost every night this fall, but w/audio too weak to be described. Country #66 from Denver. (Martin,CO) --- 11/29 0430 per tip from Randy Seaver I tuned here & found a strong het against 1400. Randy thinks it's most likely Guinea. Bearing was 73° which checks perfectly. Listened 0430-0645 & hrd no audio. Will have to watch this freq for my 1st ever TA. (Lobel,CA) --- after 1 hr listening to bongo-bongo type native mx, I'm convinced I had Conakry 0055-0155 11/30 fair w/QSB. One pos FF anmt in long periods of mx, native type, much drumming, repetitious, weird yelling & calls plus some native inst. (Curtis,VT) --- first noted as early as 0354 w/little audio. FF & African langs, male voice mostly. Drum mx, African singing & some

FF pop mx. Hrd nightly but this observation on 12/1 till 0614. (Young,CA) (With the rash of rpts that have come in on this one lately, I wonder if they've gotten some new equipment and/or tweaked up the old equipment. Listed as 100 kw. bp)

1421 WEST GERMANY, Saarbrücken, light mx & anmts in GG on 12/3 at 0456. (Young,CA) (Was there much domestic slop?bp)

1439 t LUXEMBOURG, Marnach, strong carrier here but little audio (talking) 0457 12/3. (Young,CA) (Was there much KPRO etc slop? bp)

1466 MONACO, Monte-Carlo, TWR booming in on TRF w/AA pgm 2351 12/1. (Connolly,MA) --- 0057 11/28 fair & in unid lang, short series of mx tones before hour & time tone. (Curtis,VT)

1525 + CHINA, Urdmqi, date for this one was 11/7 2235-2305 (cf DXWV 11/27/76). (Eckman,PA) --- tentative for 12/2 2315-2345. Too much adjacent channel slop to read audio, but PFM as 1525014.9 Hz +0.2 Hz. Also noted SAH of about 7 Hz but unable to PFM second carrier. May be same pair as noted from Philippines in 1973. Could someone please correlate?(Taylor,IN)

1554 FRANCE, Nice in w/weak audio all evening 0400 12/3. (Manning,CA) --- FF mx & anmts 0418, lively mx 0426 //164 kHz 12/4. (Young,CA)

1586 WEST GERMANY, Langenberg, WDR slight detection of audio on carrier 0305 12/4. (Young,CA) --- fair w/ jazz 0530 12/1. (Connolly,MA)

1602 WEST GERMANY, München, light mx here 0306, male voice in GG 0307 12/4. (Young,CA)

PAN AMERICAN DX ROUNDUP

545 DOMINICA, Roseau, R. Jumbo strong 0115 12/2 FF w/fast rock type LA mx. (Curtis,VI) --- very good w/FF pop mx 1005 12/6. (Portzer,WA)

595 DOMINICA, Roseau, R. Dominica fair thru domestic slop w/mor mx just after apparent s/on 1003 12/6. (Portzer)

650 MEXICO, Los Mochis, Sin., XFTHT noted atop 1355 12/5 w/rigs pgm, ID at 1400. Good sig. (Kaskey,CA)

663.5 2+ UNID mystery LA here in Sept & Oct disappeared some-time in the closing days of Oct & could not be found thru Nov. Prob returned to its regular freq & we may never know what it was, a fish getting away! (Martin)

725 SURINAM, Paramaribo, SRS 0104 12/1 pseudo-DD talk, good as usual, OM & YL interview pgm. (Curtis,VT) --- good w/US c/w 2359 12/1. (Connolly,MA)

730 GUATEMALA, Guatemala, TGN in very good running "Thru the Bible" in EE. ID by man in EE 0429 giving several SW //s. Pgm change to SS 0430 12/2. Listeners invited to write for QSL. (Maloney,OK)

740 MONTSERRAT, R. Antilles assumed to be the one w/pop songs in FF, including an FF version of "Heartbreak Hotel", w/anmts by male DJ after each song 0949-0955 12/6 looping towards Caribbean. KQBS/KBRT OCs both off, a rare occurrence on MMs. CKIG slop finally got the better of them 0955. (Portzer,WA)

810 COLOMBIA, Bogotá, HJCY hrd 1000-1015 12/6 w/SS mx & R. Sutatenza IDs. (Tomer,CA)

810 MEXICO, Cd. Obregon, Son., XERSV w/xlnt sig after 1300 s/on 12/5. Took over from CHQR. No TPs hrd on this freq as yet. (Kaskey,CA)

830 MEXICO, Culiacan, XEVQ 12/5 w/R. VQ ID 1333 after mucho talk & Ranchero mx. Atop freq. (Kaskey,CA)

834 BELIZE, Belize, R. Belize w/religion, loud, 1210 12/3. (Manning,CA)

1000 COLOMBIA, Cartagena, HJAQ in fair-good 0800-0930 12/6 w/SS mx, many ments of Colombia & RCN IDs. No sign of XEOY. (Tomer,CA)

1205 ? UNID, playing uninterrupted EL mx 11/28. Played Ray Price "For the Good Times" 0254-3 bells then time ticks 0300. Male British ancr into BBC WS mx to 0315, no song titles or DJ activity. Gave ID just before & after 0300 but too much slop from WOI. Strongly suspect Cayman Islands as per WIRTH. Pgm similar to that hrd 11/26 on 1555. Checked for possible // but no het hrd 11/28 on 1555. (Maloney,OK)

1220 MEXICO, México, D.F., XEB, R. Cuatro quite strong 12/5 w/"R. Cuatro, la Estacione el whoop-whoop..." IDs given frequently. (Tomer,CA)

1490 MEXICO, Cd. Juarez, Chih., XECJC 11/22 0845 several "R. Sensacion" IDs by man. Pop mx in SS in null of KDB w/another unID (prob KCUZ). (Lobel,CA)

1520 MEXICO, San Luis, Son., XEEH, 11/29 1250 w/ID & ment of San Luis Rio Colorado. (Lobel,CA)

1555 CAYMAN ISLANDS, Georgetown, R. Cayman s/on & ID, xlnt sig & mod, in loud 1100 11/19 w/light mx & anmt in EE. (Manning,CA) --- 12/1 was tuned at 1055 but nothing hrd. Back again 1116 & noted 2 stns now here. Dominant w/hymns in EE, other man talking. Faded down, back up 1125 w/"Rock of Ages". Again 2 distinct sigs 1128, man still talking in Oriental lang & hymn play-

er w/no anmts between songs. Up again 1135 & held past 1143. Had faded out by 1155 & some XE bombed on 1560 at 1200 to kill further DX there. No IDs but certainly suspect R. Cayman & DYLA. (Kaskey,CA)

1606 UNID, fair sigs w/w&f in EE in & out, been trying for quite awhile on this. Ideas? 0650 11/20. (Manning,CA) (Prob either a pirate or some stn's relay xr for remote operations. bp)

PACIFIC DX ROUNDUP

173 USSR, Yakutsk, RR talking by male voice 0801 hrd to past 1017 12/4. (Young,CA)

191 USSR, Blagoveshchensk extremely strong 0534 u/SFI beacon stn. Strength improved to past 0817. Almost clear of beacon then. RR singing, talking, different format than SW outlets. //182 12/4. (Young,CA)

218 USSR, Yeniseysk here 0925 along w/Khabarovsk w/RR talking 12/4. (Young,CA)

227 MONGOLIA, Ulan Bator, R. Moscow IS 0930 w/Mongolian service (relayed by Ulan Bator at this time). RR stn also here & stronger 12/4. (Young,CA)

227 USSR, Nizhniy Tagil, male voice in RR here 0928 o/ Mongolia 12/4. (Young,CA)

236 USSR, Irkutsk hrd u/Magadan 0933 w/cl mx 12/4. (Young)

236 USSR, Magadan, singing mx o/Irkutsk 0937. Female voice in RR 0946. Hrd past 1143 when still very strong 12/4. (Young,CA) (How did you decide which was Irkutsk & which was Magadan? bp)

245 USSR, Vladivostok 1110-1230 12/5, blanket electrical current in the atmosphere o/L.A. Sig came in weak 1110-1155. At 1155 it improved, 1200 woman talking blank & hrd 2 beautiful mexical chimes, man & woman rpting mx, stn ID hrd 3 times. Then into mx, light opera w/baritone singer. I have a neighbor whose sister is a college grad in languages, God is with me, who translated for me. (Wilson,CA)

263 USSR, Chita believed here 0939 w/RR talking 12/4. (Young)

272 USSR, Novosibirsk at 0943 noted but this could still be the weaker powered RR stn in Birobidzhan. Who cares? Singing noted weakly on 12/4. (Young,CA)

281 USSR, Yuzno-Sakhalinsk 0943 w/female voices in RR. Terrible QRM from beacon stn "GWFF" 12/4. (Young,CA)

584 USSR, Svobodnyy 12/1 fair thru splat 0921, however improved immensely 1035, when 647 // was also booming in. Fair thru slop 12/4 1304. Sporadic audio 12/7 around 0930-1030. (Kaskey,CA)

647 USSR, Iman, 11/30 fair-good 0915-0925; 12/1 poor-fair 1024 but up for armchair level 1030 w/Kremlin Chimes. Best ever hrd here. 12/7 good sig 0856 & up to good level again 0911. (Kaskey,CA) --- male & female good 12/3 w/ ID & IS 1200. (Manning,CA)

650 ALASKA, Anchorage, KYAK, 12/1 w/ad for ski race in Anchorage & time as 12:28 at 1028. ID & into c/w mx. Then was swamped by USSR-647 until past 1035. First time I've IDed KYAK ever. (Kaskey,CA)

655 N. KOREA, Pyongyang xlnt 1202 12/3 w/slight flutter w/ opera, ID, pips, 3 short, one long, nice. (Manning,CA)

660 ALASKA, Fairbanks, KFAR finally 12/7 w/rock till 0900 then clear ID. Time 11 pm & more rr. KNBR slop as usual. 1st time hrd this season. (Kaskey,CA)

707 a? UNID, 1205 12/3 in lang, weak but solid here, not quite enuf for ID to anything. TP for sure. (Manning,CA) (90% certain this was HLKA. bp)

708 v S. KOREA, Seoul, HLKA w/pips 1300 12/4. (...?) (Kaskey,CA)

820 N. KOREA, Najin o/u WBAP 12/5 1324 //877. (Kaskey,CA)

835 CHINA, Nanchang, male clear in CC. Thanks to the Autek for notching the 1 kHz tone. 12/3 1211. (Manning)

840 USSR, Spassk Dalniy w/chimes 12/5 1329 o/JOJK. (Kaskey)

840 JAPAN, Miigata, JOJK w/pips thru WHAS 12/7 0800. Audio poor but pips boomed thru easily. (Kaskey,CA)

877 N. KOREA, Wonsan usual loud female in KK 1215 12/3. (Manning,CA) --- one of the earliest TPs to arrive. 11/30 0830 & 12/7 0805. Usual pgmning. (Kaskey,CA)

880 S. KOREA, Taejon, HLKI atop 12/2 1500 w/pips, 3 low & 1 high. Strangely enuf KRWN was still audible in E/W beam of SM-2. (Kaskey,CA)

1010 JAPAN, Osaka, JONR atop 12/1 1002, men talking, gongs gonging & Mor mx in JJ. Noted in passing 12/7 0900-1130 also. (Kaskey,CA)

1020 ? CHINA/UNID, 12/7 noted 2 TPs 0925 in KDKA null. Strongest was playing cl mx, the other w/talk. Sig quite good at times. At 1000 stn atop at the time was CC w/5 low, 1 hi 11 sec pip sequence, the other seemed to have a 2 or 3 note IS or pip, but covered by CC. From 1000-1045 only CC hrd & noted //835. 1045-1100 sigs were much poorer w/little discernable. Pips surfaced 1100 were 2 low & 1 long hi. This not the same stn that was hrd 1000-1045, but may have been the secondary stn 0930-1000. At 1112 only KDKA audible on freq. At 1137 TP there weakly but not //835. My theory: 0925-



1000 dominant stn w/5&l pips 1000 & //835 was Chang-chun carrying CC 1st pgm. Fujien Front BC not likely because neither 835 or 880 CC was more than extremely weak & 1020 was in well. 835 & 880 did not send much strength here until around 1115 when 1020 was almost completely out. Also, 1040 w/u WHO 0930-1100, yet 877, 647 & other northern stns were in well at the time. Also, could it be that MBC net in S. Korea IS using 2 low & 1 high pip nowadays? Had that HLKY used 2&l earlier this year & now here on 1020 at 1100. If so, HLAW likely. Will keep trying. (Kaskey,CA)(I hrd HLKY w/2&l at 1100 one AM a couple months ago. bp)

1040 CHINA, wherever, 11/29 0923 w/large chorus in some sort of chant w/oriental sounding insts. Lots of QRN. 0926 female ancr in CC. (Lobel,CA)

1210 JAPAN, Osaka, JOOR w/very strong sig 12/7 0950 mixing w/Peking 0951 & xint sig 1005. (Kaskey,CA)

1385 PHOENIX ISLANDS, Canton, WXLE 11/29 0935. This little 250 watt stn at around 4500 miles was really booming in. Xint sig w/ID "This is the ... Island, WXLE ..."

1555 t Soft mxical variety. Rpt out. (Lobel,CA)

1555 ? PHILIPPINES, Cebu City, DYIA, (see Cayman Islands-1555 listing in Pan Am section.bp). (Kaskey,CA)

UNID, carrier here 0945 11/19 w/occasional talk in language. (Manning,CA)

DOMESTIC INTERNATIONAL ROUNDUP

1180 FL, Marathon, VOA 11/22 1128 w/KCBQ off. Hrd S-10 sig w/Yankee Doodle, good ID & SS anmt giving freq & other details. (Lobel,CA)

1540 ON, Toronto, CHIN atop WPTR w/II talk 2135 12/1. (Connelly,MA)

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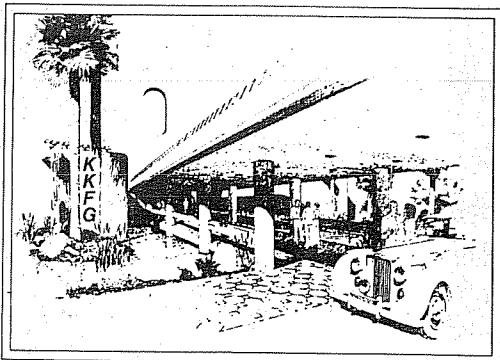
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SFR-4, 200' longwire

That does it for another week. Watch for more of the same next week, plus an address change in a couple of weeks for ye DXW editor. Only other news is a possible DX casualty; my Sony tape deck appears to have worn out its motor, a phenomenon which occurs every three years. That's not surprising, since DXers tape recorders tend to be to hi-hi equipment what New York taxicabs are to cars, hi. 73 & good DX. bp.



Charles Gill Box 84 Springville NY 14141

Domestic Contest News & Standings:

|                        | TP   | DT  | L  | M | R   |
|------------------------|------|-----|----|---|-----|
| 1. Kramer(IL)          | 4535 | 134 | 61 | 0 | 0   |
| 2. Breger(TX)          | 2241 | 62  | 13 | 0 | 109 |
| 3. Young Jim(CA)       | 2122 | 56  | 29 | 1 | 15  |
| 4. Larson(NE)          | 1876 | 51  | 8  | 4 | 115 |
| 5. Morby(NY)           | 1838 | 62  | 6  | 2 | 79  |
| 6. Wheeler(PA)         | 1367 | 26  | 5  | 6 | 99  |
| 7. Young Karen(CA)     | 1296 | 26  | 18 | 2 | 82  |
| 8. Oliphant(AB Canada) | 1274 | 26  | 26 | 0 | 0   |
| 9. Nittler(NE)         | 675  | 0   | 25 | 0 | 0   |
| 10. Hogan(IN)          | 624  | 21  | 6  | 0 | 0   |
| 11. Hardy Nancy(WA)    | 243  | 2   | 7  | 0 | 5   |
| 12. Eddie(MO)          | 138  | 3   | 2  | 0 | 9   |
| 13. Hardy Bill         | 27   | 0   | 1  | 0 | 0   |
| 14. Erickson(CA)       | 0    | 0   | 0  | 0 | 0   |
| 15. Evans(MI)          | 0    | 0   | 0  | 0 | 0   |

Contest News: Subject Mystery Station Clues, 1. This station is considered in a Southern State, it recently had its call letters changed. 2. This station in Canada, has in its call letters how you might feel at a sporting event

Foreign Contest

|                        | TP  | TS | MC |
|------------------------|-----|----|----|
| 1. Williams(OR)        | 245 | 5  | 1  |
| 2. Oliphant(AB Canada) | 175 | 2  | 1  |
| 3. Hogan(IND)          | 0   | 0  | 0  |
| 4. Erickson(CA)        | 0   | 0  | 0  |
| 5. Eddie(MO)           | 0   | 0  | 0  |

Key to Foreign Contest: TP== Total Points  
TS== Total Stations MC== Mystery Country

2-A—THE DETROIT NEWS—Wednesday, November 3, 1976

via Phil Boersma

**A salute to WCAR news**

I don't want to sound pompous about this, but at one time I was news director of an entire radio station. (You can't see it, but I'm blushing modestly.)

WGRI, in Griffin, Ga. I'm sure you've heard of it. We blasted out a whole 1,000 watts, daytime only. When you walked across the street to Woolworth's for a cup of coffee at their lunch counter, you left our coverage area. We were under strict instructions to keep the windows open and SPEAK VERY LOUDLY into the microphone. Picked up a lot of extra listeners that way going into the auto parts store downstairs.

I had two primary duties: rush off to every accident on US-19 (or was it 29?) and capture as many screams of agony as possible on my tape recorder for replay later to a morbidly fascinated audience of 15 or 20 people (drive time), and prepare newscasts by that time-honored tradition of ripping and reading.

I reluctantly moved on to better things one day about five minutes after the station manager went berserk during a newscast and demonstrated exactly how enriched his language had become during several years in the Navy. With his microphone very on. In a very Southern Baptist town.

**24 hours of news**

But I harbor fond memories. And I really do have an understanding of how demanding radio news can be.

And that's why I find the presence of WCAR in the Detroit area so pleasing.

News is all those people do. Twenty-four hours a day, seven days a week, 50,000 watts of power booming out news, sports, entertainment, finance, features, interviews, weather and traffic conditions to more than eight million people in Michigan, Ohio and Canada.

The all-news format is 10 months old now at WCAR, and it's time to declare it an unqualified success. Not only are ratings up more than 50 percent, but a new advertising rate card went into effect Monday with across-the-board increases.

The station is an affiliate of NIS—News and Information Service—a project dreamed up two years ago by

NBC Radio president Jack Thayer. The idea of providing around-the-clock news coverage was a natural for NBC, which has the largest news-gathering staff in the world.

Thayer tested his idea at WRC, NBC's outlet in Washington, and then made it available nationwide. Right now there are 770 affiliates on the NIS network, and insiders say there might be 1,000 by the end of the year.

"We just signed a two-year contract with NBC, and we have options to renew it forever," Bruce Houston, WCAR's new station manager, told me rather complacently. "It's the most expensive format conceivable to operate, but it's worth it."

A good portion of the expense came from doubling the staff to some 40 people, most of them full time. And most, because of the nature of the format, are better educated than the average radio employe who spins records for a living.

**An impressive background**

Beth Konrad, the news director, has impeccable credentials. She's been in broadcasting since age 17, has a master's degree, and worked locally in Detroit before signing on with ABC and becoming news director of their Chicago FM outlet. When NIS cranked up, Beth was hired for its San Francisco station. In less than nine months her voice had become familiar to a nationwide NIS audience as she covered the Patty Hearst case, the Zebra murder trial and the Chowchilla kidnaping.

Now she's here, with a lot of experience, and even more enthusiasm.

"News has never been as important as it is today," she told me. "It's imperative that people listen to the news. That's why this station is gonna go like gangbusters. We've got the right format, the right staff... this thing is just gonna skyrocket."

It is a good staff. The network will provide material to cover as many as 50 minutes in any given hour, but WCAR doesn't use that much because its own staff has too much to contribute.

Detroit, Beth Konrad says, is a helluva news town. I agree, and I'm happy WCAR is doing a helluva job covering it.

# A Proposal To Improve Radio Coverage In The U.S.:

## High-Power Stations At Low-Frequency

By Paul H. Lee

Following a study which showed large areas of the western U.S. with very poor radio broadcast service, the FCC has opened an inquiry to seek ways of improving coverage: Put more stations on the clear channels? Let the "clears" raise power to 100kW or 1 megawatt? The author of this article argues for another plan—a series of very-high-power stations on the unused 150 to 285 KHz band.

The reopening of the Clear Channel Proceedings by the Federal Communications Commission has caused much interest and speculation among broadcasters, especially among the clear channel broadcasters, who have much at stake. Should the remaining twelve unduplicated clear channels, which the FCC has protected from encroachment for over a decade, be "diluted" by assignment of Class IB or Class II stations thereon, to provide coverage for areas which do not now have it? Or should these channels remain unduplicated, with the Class IA stations thereon being permitted to go to "super-power" of 500 or 1000 kW? What role can FM play in providing coverage to areas of the United States now lacking in coverage?

economic aspects, and will concentrate on the engineering aspects of providing improved aural service to this country.

Recently, the FCC, as part of its study of radio coverage, has thoughtfully provided maps of existing FM coverage of the United States. One map shows the 1 mV/m areas, and the other shows the 50 uV/m areas. Both maps show very clearly what we here in the western states know, that the eastern states are quite saturated with FM coverage, whereas the states west of the Mississippi River are very lacking in FM coverage. There are vast areas of plains, prairies and mountains with few cities and towns of sufficient size to support a radio station commercially, so FM is not the answer to this problem. Yet people live in these areas and they deserve

to have coverage.

Nor is local nor regional AM the answer. Such stations must be limited in service area, especially at night to avoid interference with distant co-channel stations. Further, a tabulation of the AM Clear Channel stations makes it obvious that their distribution is very inequitable. Only KFI, Los Angeles and KSL, Salt Lake City, among the "clears" can be classed as western stations. All the rest are in the east or the midwest. Thus there are vast areas of the west without adequate AM service, especially at night.

Is the best approach to this problem raising the power of the twelve Class IA stations, of which KFI and KSL are two, or is there a more sound engineering approach which will provide improved AM service to the entire country?

I believe there is a much more effective and practical solution to the problem. There is a forgotten portion of the frequency spectrum, from 150 to 285 KHz, which is used in Europe, ITU Region I, for high power broadcasting. In this hemisphere, ITU Region II, this portion of the spectrum is allocated to the fixed services. Listening in this band will show some use by the military, by beacons, and by the old-time A-N radio range stations. The need for the latter is greatly diminishing due to increased use of VHF by the airways.

This low frequency band (LF) has a great advantage for high power AM broadcasting because of the greatly diminished effect of ground conductivity on ground wave propagation. Many broadcast engineers are aware of the advantage of a 550 KHz frequency vs one of 1600 KHz. The FCC's ground wave curves in Section 73.184 of the Rules show this very dramatically. What they do not show, and what may not be known to many broadcast engineers, is the even more dramatic effect of going even lower in frequency, down to 150 to 285 KHz.

Figure 1 shows this effect clearly. These curves are taken from a Signal Corps publication which has been in existence for many years (unclassified), TM11-499, "Radio Propagation." They are based on the same basic formulae by Norton as are the FCC's curves. They show ground wave field intensity vs distance for various frequencies. For greater ease in use they are based on an unattenuated field at one mile of 186.3 mV/m for 1 kW. For a power other than 1 kW, it is only necessary to add or subtract the required number of DB relative of 1 kW, on the left hand scale, to find the resultant field intensity.

To illustrate, assume kW radiated power over good ground, and note that at 200 KHz the 0.5 mV/m ground wave contour will fall at 200 miles from the transmitter, whereas at 1000 KHz it will fall far short at only 53 miles! Over poor ground the difference is even more drastic, with the 0.5 mV/m contour at 200 KHz falling at 82 miles, whereas at 1000 KHz it falls short at only 16 miles!

If power is increased to 1000 kW, at 200 KHz the 0.5 mV/m contour will fall at 730 miles over good ground, whereas at 1000 KHz it will fall at only 190 miles. Over poor ground, at 200 KHz it will fall at 315 miles, whereas at 1000 KHz it will fall far short at only 82 miles. If a taller tower than one-quarter wave were used, with a higher radiated field, the results would be even better. Does anyone need further proof that this LF band is the place for super-power broadcasting? To increase the power of the present Class IA stations in the existing MF band would be very wasteful of power and facilities, for it would not provide the national coverage of when a group of super-power stations should be capable, but would only serve to make an existing interference situation worse.

Fig. 2 shows how eight strategically located super-power LF stations could cover the entire United States with non-fading signals. This is not a new concept, by any means. Research in the old *Proceedings of the IRE* turned up an article by W.H. Wenstrom in June 1931, in which he discussed the advantages and disadvantages of LF vs MF high power broadcasting, and showed clearly how LF is the answer. He proposed a group of seven stations, for national, non-fading coverage. Why nothing ever developed from this concept in those days we can only guess, but those knowledgeable in the frequency allocation field have suggested that it was due to pressure by the aviation interests who at that time were pushing for the LF A-N radio ranges, inasmuch as VHF had not yet come into being, for aviation uses.

Implementation of this concept would require that the FCC initiate action by the United States government to obtain action at the forthcoming World Administrative Radio Conference in 1979 to have the 150 to 285 KHz spectrum allocated for broadcasting in Region II. This would be a very desirable action from the standpoint of the clear channel broadcasters.

One may ask what types of antennas would be required. In these days of tall towers for TV broadcasting, tower height is not so great a factor as in former years. Towers of 1500 or 2000 feet are fairly commonplace. Fig. 3 shows tower heights in feet vs frequency in KHz over the band in question. Past studies and research have shown that the height of 0.54 wavelength is the optimum for minimum ground wave vs nighttime sky-wave fading. Also, it is quite commonplace to use top-

This article will touch only briefly on some of the

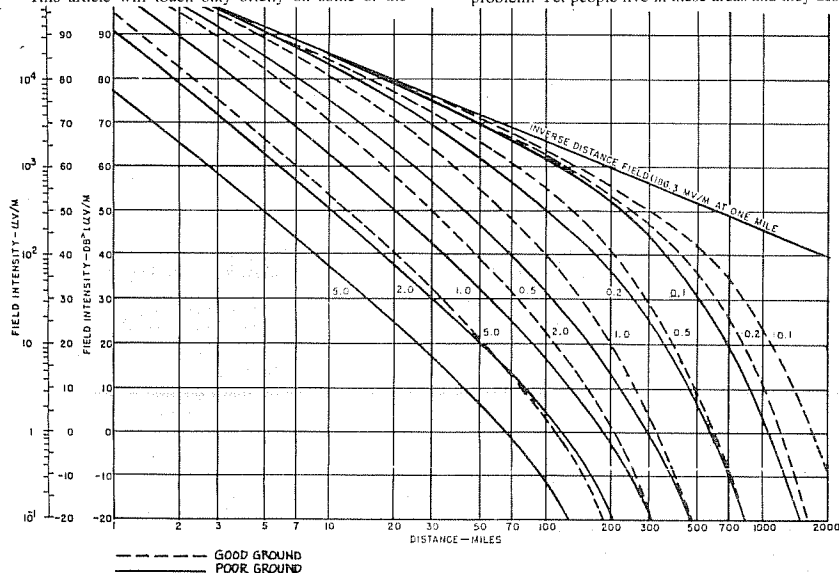


Fig. 1. Curves show the great advantage of the band below 285 KHz over the present broadcast band in groundwave coverage, over good ground (broken lines), and over poor ground (solid lines). For example, at 1000 kW, at 200 KHz the 0.5 mV/m ground-wave contour is 730 miles from the transmitter, at 1000 KHz it is only 190 miles out, over good ground. The corresponding figures over poor ground are 315 miles and 82 miles.

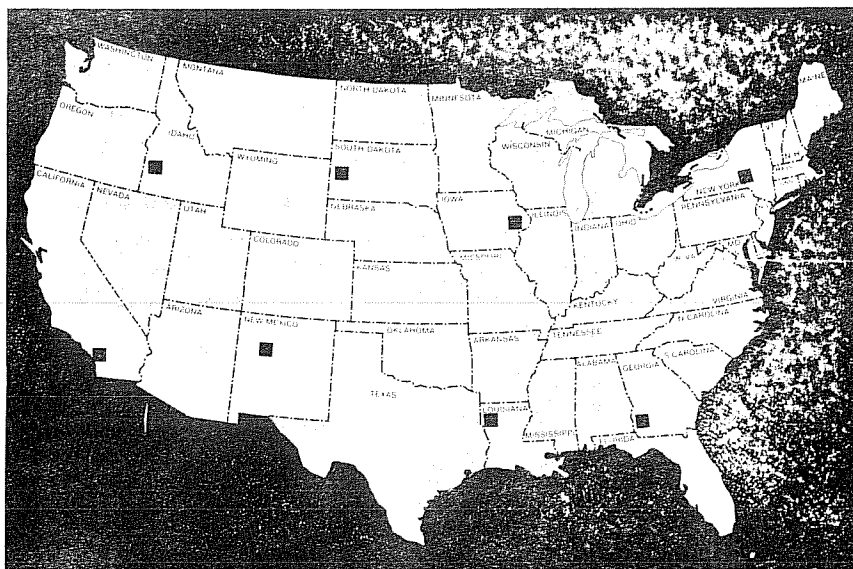


Fig. 2. Map shows how eight strategically-placed high-power stations on the LF band could provide service to the entire United States.

loading to allow the use of shorter towers with reasonable efficiency.

A good example of this approach is the Voice of America's 1000 kW station at Munich, Germany on 173 KHz. (cochannel with Radio Moscow). This powerful station uses a tower 837 feet high, top-loaded by twelve 512 foot cables which make an angle of 55° with the tower. On 173 KHz the measured base impedance of this radiator is 29.5 + j135 ohms. The unattenuated field at one mile is 178.9 mv/m. This is not an unreasonable height for an antenna at this frequency. The ground system consist of 360 radials that extend out to ¼ wavelength, with 180 of them extending out to ½ wavelength. A description of this installation can be found in the *Proceedings of the IRE* for August 1954, pages 1222 through 1235. Figure 4 shows antenna dimensions vs frequency.

There is also an antenna called the "NORD," used by the U.S. Navy for multi-channel RTTY fleet broadcast at LF. It is basically a folded unipole, with three top-loading guys which are tuned to ground at their far ends. By adjustment of the guy tuning the required bandwidth can be obtained with the use of a tower of approximately ½ wavelength. This approach eliminates the base loading coil or helix, which is always a source of high voltage problems in a high power LF installation. The input impedance of the NORD, due to its folded feed, is inductive (R + jX), and it can be matched to the transmission line with vacuum capacitors. Guy insulation

problems are diminished also.

The transmitting plants of super-power stations produce tremendous field intensities close in to the site. For this reason, these plants require location in rural areas away from population centers to avoid environmental problems. Without actually visiting the existing plants of clear channel stations, one can nevertheless be fairly sure that many of them have been subject to residential or industrial encroachment in the years since they were built, and are not now suitably located for conversion to 500 kW or 1000 kW operation. Thus, new plants would be required, and they might as well be built for LF transmission as for MF transmission.

Existing Class IA stations could be converted to Class IB's with channels being duplicated to provide limited regional coverage in areas now lacking. But a more sound means engineering-wise for providing national coverage would be the use of LF as outlined here. In the band 150 to 285 KHz 13 channels with 10 KHz spacing could be provided. If 9 KHz spacing like that in Europe were used, 15 channels could be provided. The United States could use 8 of them, with the remainder being allocated by international agreement to Canada, Mexico, and other western hemisphere countries.

This LF approach to super-power broadcasting is one which merits serious consideration by the clear channel broadcasters, and one which should be pursued by the FCC through I.R.A.C. to the next world ITU conference. **BM/E**

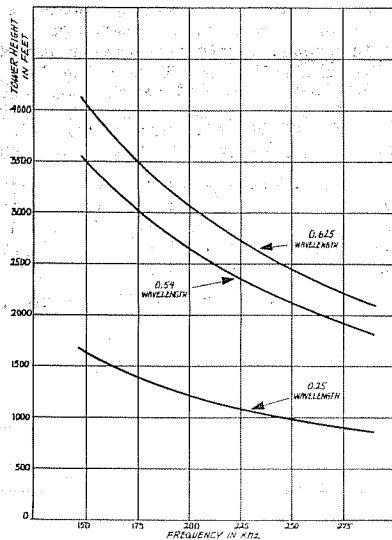


Fig. 3. Antenna heights for frequencies in the LF band, using standard 0.25 wavelength to 0.625 wavelength designs (see story).

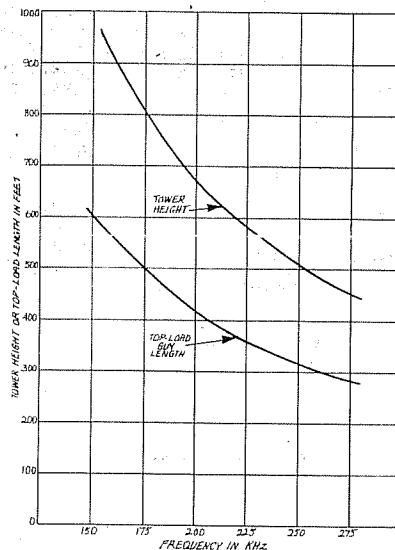
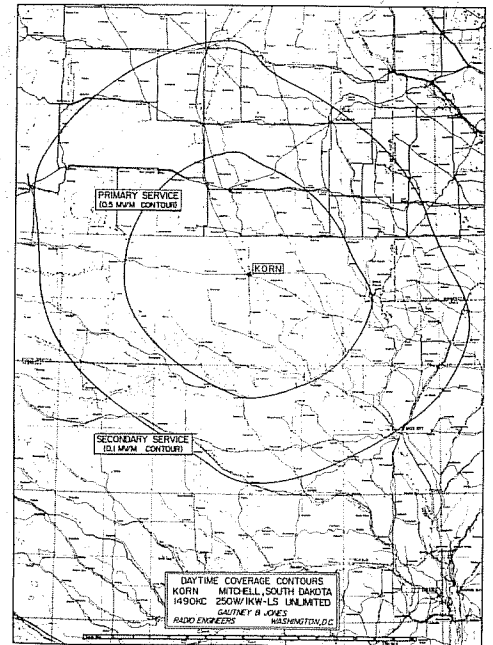


Fig. 4. Antenna heights for frequencies in the LF band, using special antenna design of the VOA in Munich, which has top loading to reduce height (see story).



- ADT Atlantic Daylight Time
- AST Atlantic Standard Time
- ALDT Alaska Daylight Time (ADT)
- ALST Alaska Standard Time (AST)
- BDT Bering Daylight Time
- BST Bering Standard Time
- CDT Central Daylight Time
- CST Central Standard Time
- EDT Eastern Daylight Time
- EST Eastern Standard Time
- HST Hawaiian Standard Time
- MDT Mountain Daylight Time
- MST Mountain Standard Time
- NDT Newfoundland Daylight Time
- NT Newfoundland Time
- PDT Pacific Daylight Time
- PST Pacific Standard Time
- YDT Yukon Daylight Time
- YST Yukon Standard Time

#### GMT CONVERSION CHART

For the use of all members, the following chart of all time zones in North America is reprinted from the Foreign Log Volume 5.

| GMT  | (NDT) | (ADT) | NT   | AST (EDT) | EST (CDT) | CST (MDT) | MST (PDT) | PST (YDT) | YST (ALDT) | HST (BDT) | BST  |
|------|-------|-------|------|-----------|-----------|-----------|-----------|-----------|------------|-----------|------|
| 0000 | 2130  | 2100  | 2030 | 2000      | 1900      | 1800      | 1700      | 1600      | 1500       | 1400      | 1300 |
| 0100 | 2230  | 2200  | 2130 | 2100      | 2000      | 1900      | 1800      | 1700      | 1600       | 1500      | 1400 |
| 0200 | 2330  | 2300  | 2230 | 2200      | 2100      | 2000      | 1900      | 1800      | 1700       | 1600      | 1500 |
| 0300 | 0030  | 0000  | 2330 | 2300      | 2200      | 2100      | 2000      | 1900      | 1800       | 1700      | 1600 |
| 0400 | 0130  | 0100  | 0030 | 0000      | 2300      | 2200      | 2100      | 2000      | 1900       | 1800      | 1700 |
| 0500 | 0230  | 0200  | 0130 | 0100      | 0000      | 2300      | 2200      | 2100      | 2000       | 1900      | 1800 |
| 0600 | 0330  | 0300  | 0230 | 0200      | 0100      | 0000      | 2300      | 2200      | 2100       | 2000      | 1900 |
| 0700 | 0430  | 0400  | 0330 | 0300      | 0200      | 0100      | 0000      | 2300      | 2200       | 2100      | 2000 |
| 0800 | 0530  | 0500  | 0430 | 0400      | 0300      | 0200      | 0100      | 0000      | 2300       | 2200      | 2100 |
| 0900 | 0630  | 0600  | 0530 | 0500      | 0400      | 0300      | 0200      | 0100      | 0000       | 2300      | 2200 |
| 1000 | 0730  | 0700  | 0630 | 0600      | 0500      | 0400      | 0300      | 0200      | 0100       | 0000      | 2300 |
| 1100 | 0830  | 0800  | 0730 | 0700      | 0600      | 0500      | 0400      | 0300      | 0200       | 0100      | 0000 |
| 1200 | 0930  | 0900  | 0830 | 0800      | 0700      | 0600      | 0500      | 0400      | 0300       | 0200      | 0100 |
| 1300 | 1030  | 1000  | 0930 | 0900      | 0800      | 0700      | 0600      | 0500      | 0400       | 0300      | 0200 |
| 1400 | 1130  | 1100  | 1030 | 1000      | 0900      | 0800      | 0700      | 0600      | 0500       | 0400      | 0300 |
| 1500 | 1230  | 1200  | 1130 | 1100      | 1000      | 0900      | 0800      | 0700      | 0600       | 0500      | 0400 |
| 1600 | 1330  | 1300  | 1230 | 1200      | 1100      | 1000      | 0900      | 0800      | 0700       | 0600      | 0500 |
| 1700 | 1430  | 1400  | 1330 | 1300      | 1200      | 1100      | 1000      | 0900      | 0800       | 0700      | 0600 |
| 1800 | 1530  | 1500  | 1430 | 1400      | 1300      | 1200      | 1100      | 1000      | 0900       | 0800      | 0700 |
| 1900 | 1630  | 1600  | 1530 | 1500      | 1400      | 1300      | 1200      | 1100      | 1000       | 0900      | 0800 |
| 2000 | 1730  | 1700  | 1630 | 1600      | 1500      | 1400      | 1300      | 1200      | 1100       | 1000      | 0900 |
| 2100 | 1830  | 1800  | 1730 | 1700      | 1600      | 1500      | 1400      | 1300      | 1200       | 1100      | 1000 |
| 2200 | 1930  | 1900  | 1830 | 1800      | 1700      | 1600      | 1500      | 1400      | 1300       | 1200      | 1100 |
| 2300 | 2030  | 2000  | 1930 | 1900      | 1800      | 1700      | 1600      | 1500      | 1400       | 1300      | 1200 |
| 2400 | 2130  | 2100  | 2030 | 2000      | 1900      | 1800      | 1700      | 1600      | 1500       | 1400      | 1300 |

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page 160 December 18, 1976

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Continuing my efforts to cut down on postage costs, I do not plan on sending out any Christmas, New Years, or Hannukkah Cards. Allow me to wish all of you a Merry Christmas or Happy Hannukkah (whichever applies) and a Happy New Year; early. May the year of 1977 bring you much happiness and DX!

73's and good DX 'till next time,

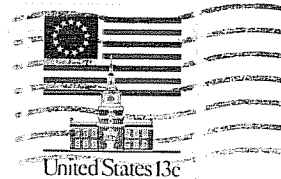
*Albert*  
Albert

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