



DX NEWS

*the magazine of the
National Radio Club*

— SINCE 1933 —

VOLUME 53 ISSUE 9 December 2, 1985

KDXU-890 St. George, UT is finally on 890. ex1450. They are 24 hours, AdCon format (mixed with a little rock at nite), Power 10kw day and night, non-directional day, mostly west night. ABC Info network. This info per Bill Hardy.

Per Bill Alisuskas, WPTS, Pittston, PA, is now on 1550, ex1540 change was done sometime in early November.

From the Canadian American SW Alliance Club comes word that they will no longer represent the I.L.G. (International Listening Guide) in either U.S. or Canada. I.L.G. subscriptions and enquires about this pub should now go directly to Bernd Friedewald, c/o International Listening Guide, MERIANSTR 2 - D-3588, HOMBERT, West Germany.

Station Penants of the World From Sam Barto (Hap Page Editor), "A few months ago we introduced the first installment of this publication - South America. It was an immediate success! Due to the increased demand, we have ordered more copies from the printer. Since this is the "Season to be Merry", we are reducing the price on the South American book (Volumes SA-1 and SA-2) to only \$5.00!! We are now releasing two new books - Asia and the Pacific Islands. The Asia publication sells for \$3.00 while the Pacific Island book costs \$2.00. You can order all 3 publications for \$10.00 U.S. Postpaid in North America. Overseas please add \$2.00 for airmail postage ...Seasons Greetings!" Send your order to Sam Barto, 47 Prospect Place, Bristol, CT 06010 USA

Well, we finally have some space to get in an article by Marc Bergman, starts on page 9. Now, to get one of Mark Connelly's many articles in next! IDXD is in this issue, we were suppose to have ran a IDXD column last issue, Hutton did send it to us over the phone lines but my modem decided to eat it! Sorry Chuck. Anywho, there is a IDXD column this issue.

We've gotten some mail here recently asking where to send articles. Well, folks, send them right here to HQ and we will see that they get taken care of.

By the way, those station pictures you've been seeing thru out the last couple of issues have been brought to you by the camera of John Malicky. Thanks John for those... plus there are still more to come in the next few issues.

CPC TEST Times listed are Eastern Time

- Dec 9 KSLN-1390 Salem, OR 0530-0600 Program will consist of March & assorted mx.
Monday Voice & Morse IDs, 5kw ND. Reports to: Mr. David R. Freer, CE, PO Box 631,
Salem, OR 97308. Arranged for the NRC by Wayne Heinen with thanks to Bill Moser
for the stamps!
- Dec 16 KFJM-1370 Grand Forks, ND 0100- , various tones, Reports to: John H. Aasen,
Monday Technical Director, Box 8116, Grand Forks, ND 58202. Arranged by John Rieger,
DX midAmerica Editor.

Just because you don't hear the test doesn't mean you don't have to thank the station for putting on the test. Why not drop the station a postcard and tell them thanks for running the tests. They need the feedback to see if there was anyone listening and to assure them that the test was tried for.

LOOK INSIDE:

- | | | |
|----------------------------|-----------------|----------------------|
| 2....AM Switch | 3....DDXD | 6....IDXD |
| 9....Noise & Signal Levels | 22....CRTC News | 23....NRC PUB. ITEMS |

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

Jerry Starr, c/o WHOT Radio, 401 N. Blaine Ave., Youngstown, OH 44505

CALL LETTER CHANGES

Old call:	New call:
640 *New TN Blountville	WNOW
720 *New NC Brevard	WGCR
1080 KTNX AK Anchorage	KASH
1220 WEZG NY North Syracuse	WURS +
1230 KPRD CA Barstow	KSZL
1270 WKHQ MI Charlevoix	WCLS
1280 WEXI FL Jacksonville	WXOZ
KLUP OK Poteau	KYYN
1560 KPTJ WA Sumner	KARP

*corrects call incorrectly reported as WUSR previously, new call now in use

APPLICATIONS FOR NEW STATIONS

720 CA Atascadero: 5000/1000 U4
 CA Selma: 10000/1000 U1
 880 NC Fairview: 1000 D1
 890 NY Solvay: 500 D3
 SC Pendleton: 25000 D1 (500 CH)
 VA Dublin: 25000 D1
 1160 MD Booneboro: 650/500 U2

GRANTS FOR NEW STATIONS

640 TN Blountville: 10000/1000 U4
 720 NC Brevard: 1000 D1 (this is WGCR and is already on, see Otherness)

APPLICATIONS FROM EXISTING FACILITIES

990 WRBK AL Flomaton: power to 8550 watts
 1050 KNXX NM Los Ranchos de Albuquerque: power to 1000 D3 (still a CP)

GRANTS TO EXISTING FACILITIES

None

OTHERNESS

660 WTUJ MS Ridgeland: requests extension of CP
 1100 WUBS IL Harrisburg: requests extension of CP for new station
 1140 WONQ FL Pine Hills: application for power increase to 5000 returned
 1180 "CP" NC Brevard: scratch this from the Log, this is moved to 720 kHz where it is now on the air as WGCR. This switch to 720 or the application and granting of these calls NEVER appeared in the FCC Public Notices or in any of the industry publications, another one that fell thru the cracks at an increasingly sloppy Public Notice Department at the FCC. We called the station and spoke to the manager who confirms that the change to 720 was made four months after the application was made for 1180. The FCC actually still places them on 1180 on some of their correspondence with the station, the manager had a few choice words about the Commission's efficiency too.
 1200 WKOX MA Framingham: powers are 10000/1000 U2 according to QSL
 WAGE VA Leesburg: expects to have fulltime 5000/5000 on in "a few weeks"
 1210 KQTL AZ Sahuarita: new station is on with SS format "Radio Que Tal"
 1240 WDFL FL Cross City: granted CP extension for new station
 1310 WJRA AL Priceville: granted CP extension for new station
 1540 WADM IN Decatur: station is silent
 1580 WEBG PA Ebensburg: formerly silent at WAJE, is back on with rock oldies

Since this is a short column and since we have only a few address changes, we include them below rather than in a separate column:

690 WNZK MI Westland: 11427 Joseph Campeau, Detroit, MI 48212
 720 WGCR NC Brevard: 105 Mull Arcade 28712
 900 CJER PQ St. Jerome: 328A St. Georges J7Z 5A5
 1220 WURS NY North Syracuse: 7900 Davis Road North, Clay, NY 13041, QTH in Updater was incorrect.
 1370 CFLV PQ Valleyfield: add J6T 1A9

73 and Good DX.....Jerry Starr & Buffalo K. Foonman

Jerry & BKF

Dave Schmidt, 42 Chelwynne Road, Castle Hills, New Castle, DE 19720

This week we pay tribute to the AIWA 158 which was recently put into standby service by John Malicky of Pittsburgh. The radio served him faithfully for many years. He finally realized that the radio worked MUCH better when he turned it ON to listen! When sending your items in, please type or neatly write, use one side of the paper, skip a line between items, EST, not over a month old. Contributions written on match-book covers and Hershey bar wrappers will not be considered. Here we go:

EMERGENCY BROADCASTS

550 WSWA VA HARRISONBURG - 11/4 1700-2000 mentions of severe flooding, ad. (BS-NJ)
 1130 WASP PA BROWNSVILLE - 11/5 2115-2205 w/flood info, local reports from officials, very pro sounding, taped til s/off. (ED-NC)
 1360 WHBG VA HARRISONBURG - 11/4 1708-2000 flooding news, CW music. (BS-NJ)
 1470 WBTX VA BROADWAY - 11/4 1705-2000 dominating signal at times w/flood news, gave power as 5000 watts. (BS-NJ)

SPECIAL

830 KUYO WY EVANSVILLE - 10/15 0905 fair w/Christian music, ads, again 10/16 0920 weak w/music, Indian language program, again 10/23 0915 fair w/weather, music. (LHC-CA)...11/4 0815 o/WCCO w/s/on, easy since Sept. s/on. (DKK)
 890 KQLX ND LISBON - First noted w/CW music 10/24, ID as Q Country, Great American Agriculture Network news, a sunrise regular giving WLS a battle, CP shows this as being on 720. (SD-KS)
 1140 WONQ FL PINE HILLS - Per call, station is on as of 10/21. (JH-FL)
 1240 KSAC CA SACRAMENTO - 11/1 1823 noted w/new calls, CHR format, ex-KENZ. (DKK-CA)
 1310 KDIA CA OAKLAND - 10/15 back on reg sked as of this date, ex-KFYI. (DKK-CA)
 1400 KSUN AZ PHOENIX - 10/21 0432 briefly noted w/Sundown Sound promo, also noted on 9/9 & 9/10, back on air, previously silent. (LHC-CA)
 1460 KLCZ CA SALINAS - 11/6 2043 thru heavy KEST-1450 splash w/news, ads, pop music, several ID's, ex-KDON. (DKK-CA)
 1510 KNTS AZ MESA - 10/28 0843 xint w/ads, News, Traffic & Sports, ex-KDJQ. (LHC-CA)
 1590 WPSL FL PORT ST LUCIE - 11/4 0617 in sharp null of local WRXB w/mentioned Solid Gold format, new as of 10/26. (JH-FL)
 1600 WVIJ GA WARNER ROBBINS - 11/4 1730 w/religious talk, ID, ex-WREN. (BS-NJ)

FREQUENCY CHECK

2nd Mon - KQNK-1530 KS 0120 ending anc'd f/c. (WH-CO)

DX TESTS

1370 WMGO MS 11/11 0400 code ID's just u/WCOA. (JH-FL)...11/11 0400 many CW ID's, bits of music u/very loud WSPD. Had horrible WNNK-1360 splash which goes up to 1400 some nights here! (JS-OH)...11/11 0401 code ID's only w/KSOP/KXCL/KWRM. (WH-CO)

MIDDAY - MIDNITE

560 WFRB MD FROSTBURG - 11/4 1711 burying WFIL w/AM 56 slogan, ad. (HH-PA)
 600 WCAO MD BALTIMORE - 11/4 1650 mentions of Towson, ID, not often heard. (HH-MD)
 640 WMSO TN COLLIERSVILLE - 11/6 1800 very strong at times ending CW type music, ID, 'Love 64' w/Memphis dual ID, faded down shortly after. (HJH-PA)
 680 WCAW WV CHARLESTON - 11/6 1618 CW music, ID, request for help to aid local area flood victims. (BS-NJ)
 730 KVRC OR MEDFORD - 10/28 2045-2050 very weak w/several S OR mentions. (LHC-CA)
 WMTX KY VANCELEVE - 10/18 1900 w/s/off mentioning 1700 Sunday s/off. (BS-NJ)
 WPMC NC GOLDSBORO - 10/18 1845 noted w/s/off. (BS-NJ)
 750 WHEB NH PORTSMOUTH - 11/9 1730 very readable w/AM 75 ID's, has to be the easiest way to hear NH. (JS-OH) Yeah, WFEA-1370 booms in here nightly.
 WBMD MD BALTIMORE - 11/9 1718 atop briefly w/Polka music program. (JS-OH)
 790 WMC TN MEMPHIS - 11/6 1752 fair w/contest info, ID, CW music. (HJH-PA)
 800 WLAD CT DANBURY - 11/6 1746 fair w/oldies, extended hours. (HJH-PA)
 810 WQIZ SC ST GEORGE - 11/6 1713-1715 w/gospel music, mention of Orangeburg services, s/off. (BS-NJ)...11/7 1715 s/off w/female anc'r. (HJH-PA)
 830 WLAND OH CORTLAND - 11/6 1655 female anc'r w/contest ending 'we're on 830 on your radio, Mam, right here in Cortland'. Evidently still trying to spread the word their on, maybe they'd be better off b'cstg by telephone! (HJH-PA) Yeah, that can still get some veries! (DS)
 840 CHUR ON NORTH BAY - 11/10 1752 noted w/stereo 840 ID's, mix of rock/CW/EZL music, ex-1110. (HJH-PA)

850 WRMR OH CLEVELAND - 9/9 2230-2300 w/WHDH/CKVL w/standards, ID. (PK-CT)
 870 WHCU NY ITHACA - 11/9 1750 loud o/WVL w/pop music, s/off mentioned 5000 watts day/1000 watts night which is their fulltime CP, are they anc'g the fulltime but not using it yet? (JS-OH) Anything in radio IS possible!
 UNID 11/10 1715 s/off w/'owned by Covedence Bcst'g, God Bless You', call sounded like WBRW. (HJH-PA)
 UNID 11/10 1716 another one, very weak after above w/'This is the voice of -----', sounded like WGBR or WGVV, tough thru WHCU. Tape replay didn't help. (HJH-PA)
 880 WEEG GA JEFFERSON - 11/6 1729 u/WCBS ending CW music into s/off w/banjo. (HJH)
 920 KOLO NV RENO - 10/28 2110 good w/CW music, gone at pattern change. Also 10/27 2052 good w/CW music, NBC news, then covered by KHJ-930 splash.(LHC-CA)
 970 KYTE OR PORTLAND - 10/28 2344 good w/MYL, CBS news on hour. (LHC-CA)
 KUZZ CA BAKERSFIELD - 10/30 2040 weak w/CW music, ads, contest promo. (LHC-CA)
 1000 KRZD CO HAYDEN - 10/30 1930-1942 fair w/news, weather, AP sports, ads. (LHC-CA)
 1040 WJTB OH N RIDGEVILLE - 11/9 1631-1701 noted w/Spanish talk/music til s/off.(JS)
 1120 WYNO OH NELSONVILLE - 11/9 1705-1715 unusually loud til s/off, usually all GA by this time here. (JS-OH)
 1140 WIXC AL HAZEL GREEN - 11/12 1744 noted w/ID, s/off w/Dixie. (JH-PL)
 1200 WAGE VA LEESBURG - 10/18 1815 news, ID, likely will be a regular. (HJH-PA) no, a pain! (DS).....11/9 1700 loud for 1st time til short s/off w/bad WCAU-1210 splash. (JS-OH)
 1210 KQTL AZ SAHUARITA - 10/23 2020 fair o/u KCLG w/World Series and ads in Spanish, ID as Radio Quetal. (LHC-CA)
 1220 KTSJ CA POMONA - 10/18 1909-1955 weakly noted w/ID mentioning Christain music and the San Gabriel Valley and 'The Sound of Joy' IDs, some splash from KGFJ-1230. (LHC-CA) We back east should be so lucky! (DS)
 1250 KHIL AZ WILLCOX - 10/29 1916 weak u/KTMS w/CW music, PSA. (LHC-CA)
 WYKM WV RUPERT - 10/22 1831 mention of accident victims fund in Charleston, ad w/mention of Rainelle, ID. (BS-NJ)
 1310 KLIX ID TWIN FALLS - 10/24 2155-2201 good w/ad, promo. (LHC-CA)
 1360 WCHL NC CHAPEL HILL - 11/4 1709 ID, female anc'r w/CBL news, o/WHGG. (BS-NJ)
 1380 WJUS SC N AUGUSTA - 11/6 1730 news, ID, CW music. (BS-NJ)
 1450 KVEN CA VENTURA - 10/25 1510 weak w/weather, news. (LHC-CA)
 KONE NV RENO - 10/30 2203 very weak w/ABC news, weather. (LHC-CA)
 1480 WSAV VA SALEM - 10/18 1845 Station of the Stars, s/off w/owners name. (BS-NJ)
 1510 KIRV CA FRESNO - 10/31 2015-2029 good o/KNSE/KTIM w/Pocus on the Family talk program, s/off. (LHC-CA)
 KTIM CA SAN RAFAEL - 10/31 2016-2032 fair u/KIRV w/Paul Harvey, BBD music til s/off. (LHC-CA)
 1590 KLIV CA SAN JOSE - 10/25 2042 good w/promo, traffic report, MYL, ID. (LHC-CA)
 1600 WEUP AL HUNTSVILLE - 11/4 1722 w/ID just above others. (BS-NJ)

****MIDNITE - MIDDAY****

540 KNAK UT DELTA - 10/25 1024 briefly noted w/Items for Sale, ID. (LHC-CA)
 760 CKQR BC CASTLEGAR - 11/1 0915 nice atop KFMB w/pop/rock music, has been noted nightly w/KPMB/WJR since 9/17, ex-1230. (DKK-CA)
 770 KATL MT MILES CITY - 10/25 0922 deep u/KOB w/ID, local ad. (DKK-CA)
 800 CHAB AB MOOSE JAW - 11/11 0200 w/ID, rock music, XEROK off. (WH-CO)
 840 KSWB OR SEASIDE - 10/24 0926 weak w/weather, ad. (LHC-CA)
 850 KTAC WA TACOMA - 10/30 0353 weak u/KOA w/ID. (LHC-CA)
 CKRD AB RED DEER - 11/1 0912 ending news o/KOA, unusual. (DKK-CA) 801 pall!
 870 KUUY WY CHEYENNE - 11/4 0912 way o/KIEV w/ID, weather, CW music. (DKK-CA)
 900 KIKR TX CONROE - 10/22 0858 tentative, weak w/TX State Network News, sports promo, missed ID then faded. (LHC-CA)
 920 KVEL UT VERNAL - 10/31 0937-0939 fair w/ID, news. (LHC-CA)
 KVEC CA SAN LUIS OBISPO - 10/21 0355-0400 fair w/LK, news. (LHC-CA)
 950 KAH1 CA AUBURN - 10/28 0906 good w/Ai sports, business report, ads, weather(LHC)
 KNTF NM BAYARD - 10/28 0925 briefly noted w/ID, ads, news. (LHC-CA)
 1020 WJEP CA OPCHLOCKNEE - 11/6 0700 noted w/s/on strong w/KDKA. (ED-NC)
 1030 *KTWO WY CASPER - 10/21 0301 noted off this AM. (LHC-CA)
 KHVY CA FOLSOM - 10/21 0301 fair w/KTWO off w/UP1 news, weather, Radio promo into Music Country Network. (LHC-CA)
 1040 WHBO FL PINELLAS PARK - 11/4 0645 out of nowhere booming way o/WHO w/ID, pop music, held strong for 15 minutes. (DKK-CA)
 1050 KTBA AZ TUBA CITY - 10/25 1003 good o/XED w/IMS news, ads, program promo, local/regional news. (LHC-CA)
 1060 KPAY CA CHICO - 10/30 0335 fair w/female anc'r, PSA. (LHC-CA)

1110 KHAC AZ WINDOW ROCK - 10/23 0929 good o/KRLA w/ad, religious program. This and KTBA-1050 are located on the Navajo Indian Reservation. (LHC-CA)
 1160 WAMB TN DONELSON - 11/11 noted AN w/MYL type program, 'Music All Night' w/airline as sponser so likely NSP. Hourly ID did not include Nashville as noted in past. (JS-OH)
 1180 KOPI MT KALISPELL - 10/23 0228 w/news, ID into LK. (LHC-CA)
 1210 KQTL AZ SAHUARITA - 11/11 0130 mixing w/WCAU/KCLG/KRSV w/Radio Quetal slogan/ID, Spanish/Mexican music. (WH-CO)
 KRSV WY AFTON - 11/7 0000 o/KCLG w/CW music, ads. (WH-CO)
 UNID 10/28 0830-0845 Spanish o/KCLG/etc., noted several Kah-Tel ID's, AZ mentions. Likely KCLG, lost at 0845 KCLG power change. (DKK-CA) 8171
 1240 KJOP CA LEMOORE - 10/23 0135 briefly noted weak w/ID in Spanish. (LHC-CA)
 1250 KHIL AZ WILCOX - 10/30 0903 weak w/news on 5W Agr-Radio Network. (LHC-CA)
 KNEU UT ROOSEVELT - 10/30 0856 weak u/KTMS w/ads, ID. (LHC-CA)
 1270 KDJ1 AZ HOLBROOK - 10/28 0851 very good w/Harrie Billie show, best in Navajo language. (LHC-CA)
 1290 KHSL CA CHICO - 11/11 0129 o/u KOIL w/ID between PSA shows. (WH-CO)
 1380 KGLD MO ST LOUIS - 11/11 0325 w/KTSM w/Top 40 oldies, many ads. (WH-CO)
 1490 KDB CA SANTA BARBARA - 10/30 0244 very weak u/KWIZ-1480 splash w/classical music. (LHC-CA)
 1500 *KSTP MN ST PAUL - 11/11 0245 noted on ET w/OC this AM. (WH-CO)
 **WYOP DC WASHINGTON - 11/18 0300 noted on ET w/TT this AM. (DS-DE)
 1520 *WREA TN DAYTON - 11/10 0106-0115 ET w/sweep tones, ID, OC, very strong o/WKBW/WVOI/WCKY-1530 splash. (DS-NC)
 1570 KCVR CA LODI - 10/31 0945 good w/religion, ID. (LHC-CA)

****PIRATES****

1618 VOICE OF TOMORROW - 11/11 0030 fair w/female anc'r w/strange talk on racial subjects, marriages, revolts, etc. This pirate often noted in the shortwave bands w/talks on off the wall subjects, usually pretty sick. (DS-NC)

****RANDUMBS****

Who would travel 500+ miles to service a TV antenna? We made a short trip to NC 11/9 thru 11/11 and while there, stopped in briefly to the new home of ED & KERRY MITKUS, and that's just what we fixed up! That's what I call service!

****DIAL DELIGHTS****

ED-NC/Ed Mitkus, Zionville, NC
 JH-FL/Jody Hughes, Medeira Beach, FL/R1000, Radio West Loop
 DKK-CA/Don 'Mr. Excitement' Kaskey, San Francisco, CA/HQ140U, SM2
 SD-KS/Skip Dabelstein, Overland Park, KS
 BS-NJ/Bob Smolarek, Whitehouse Station, NJ/R2000
 LHC-CA/Les Carpenter, El Toro, CA/FRT 7700, LW
 HJH-PA/Harry Hayes, Wilkes Barre, PA/HQ180, SM2
 PK-CT/Pete Kemp, Bethel, CT/R2000, SM2
 JS-OH/Jerry Starr, Hubbard, OH/HQ180, Loop
 WH-CO/Wayne Heinen, Aurora, CO/R390A, MW1, LW
 DS-NC/Dave Schmidt, Lansing, NC/Superadio
 DS-DE/Dave Schmidt, New Castle, DE/Superadio

We're going to attend a taping session of the UNCLE FLOYD show on the NJ NETWORK on or about 12/3, to be replayed the week of 12/11. Who knows, we might be on (watch for the NRC hat!).

Continued, next week!

73's - Good DX! *JDE*

1986 WRTH SPECIAL DISCOUNT OFFER Once again the Canadian International DX Club is offering (in Canada only) the 1986 WRTH at a special pre-publication discount price. The 1986 WRTH has a Canadian list of over \$28. Advance orders to CIDX HQ will now be accepted for the books at the following rates: \$24 each, postpaid. OR \$28 each SPECIAL DELIVERY postpaid. This offer valid ONLY for books shipped to a Canadian address. Money orders or cheques payable to CIDX, # 12 1411 Millwoods Road East, Edmonton, Alta. T6L 4T3

INTERNATIONAL DX DIGEST

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

Times are GMT

For ELT subtract 5 hours.

Deadline: Monday

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 You guys did it to me again..... Nobody sends anything in for a couple of weeks then you dump it on me all at once. I wish you would just dump it on me all the time.

- 529 COSTA RICA Cartago TICAL 11/1 0452 almacén spot, agricultural extension PSA, color TV spot, "En Rumbo" time check. Good, ex-530. (Wood) Strongest signal so far this season 0533 10/26 w/usual sedate LA mx, "Rumbo" ID's. (Baskind) Strongest so far this season 11/11 when I turned a radio on for the first time in years, hi-Chuck
- 531 ALGERIA Ain Beida 0442 10/12 AA flute and drum mx fair-good. (Hakiel)
- 535 GRENADA R. Grenada 9/9 0235-0300 music, man announcer, frequent time checks and references to the Prince George's area. 0300 military music, probably their National Anthem (or maybe just somebody invading Grenada, hi-Chuck) and carrier off. Heavy QRM from CJSB. (Kemp)
- 540 MEXICO XEWA San Luis Potosi 0115 10/29 w/program on LA political affairs // 900. ID's as "XEW" (I believe they relay XEW 100% these days, no local ID's at all-Chuck). Mixing with KNOE. (Baskind)
- 585 SPAIN Madrid 0345 10/23 instrumental mx, man and woman anncrs, fair. (Hakiel)
- 600 CUBA Urbano Norris R. Rebelde CMKA 11/3 0625 news item, into tropical mx; booming, slightly overmodulated. (Wood) (Must have just tweaked the transmitter up if only slightly overmodulated-Chuck)
- 612 MOROCCO Sebaa Aioun 2212 10/26 AA mx and talk fair. (Hakiel)
- 640 GUATEMALA TGW Guatemala City just tearing up the Cuban 0397 10/30 w/"Canciones de Guatemala" program, fabulous marimba mx. (Baskind) Yeah, best station to get marimba on for sure-Chuck
- 650 ALASKA Anchorage KYAK 10/30 0823 "KYAK" singing ID; level w/KORL. (Wood)
- 650 HONDURAS LV de Centroamericana HRVM San Pedro Sula, ID'ing cadena w/WSM 0140 10/29. Too badly chewed up to pull entire list. (Baskind)
- 655 EL SALVADOR YSS San Salvador 0317 10/29 end o nx pgm, promos, ID, something nasty about Nicaragua. Loud. (Baskind)
- 660 CUBA R. Progreso CMEB Santa Clara 0355 10/30 "La Revista Nocturna de Radio Progreso" program, "R-P" ID's // 640 etc. Never very strong until late in the evening, then dominant. (Baskind)
- 660 UNID 0723 10/30 w/light SS pops, some sort of carted ID over a nautical sounding bed I remember from old Popeye cartoons. Thought maybe a "Radio Partido" or something. It wasn't the Cuban. (Baskind)
- 675 FRANCE Marseilles 2249 10/23 FF talk by man, lilty FF mx, fair. (Hakiel)
- 684 SPAIN Sevilla 2217 10/26 SS talk, good. (Hakiel)
- 693 AZORES Terceira 2258 9/17 PP talk by man, poor. (Hakiel)
- 693 ENGLAND Droitwich 2315 9/12 r&r mx, EE talk fair-good. (Hakiel)
- 700 JAMAICA JBC Radio One Montego Bay 2302 10/29 accented EE by man anncr w/local upcoming events, promo. Fair most evens w/WLW nulled. Easiest Jamaican here. (Baskind)
- 702 MOROCCO Sebaa Aioun 2207 10/26 AA talk, poor. (Hakiel)
- 710 CUBA unid a heavyweight Rebelde has popped up here. First noted 0235 10/29 // 590, 620 etc. Massive signal equalled only by its tremendously distorted audio. (Baskind)
- 730 COLOMBIA R. Melodia HJCU Bogota 0822 11/6 w/jingle ID, frantic LA dance mx, QRM from TIHB, CKAC. (Baskind) But I never hear CKAC! Chuck
- 730 COSTA RICA R. Reloj, TIHB San Jose poor 0816 11/6 w/long news item, electronic noise and ID, upbeat LA mx // 4832. Frequency a real battle-field after 0800 s/off of XEX. (Baskind)
- 738 SPAIN Barcelona 0527 10/12 SS talk, fair. (Hakiel)
- 747 JAPAN JOIB Sapporo 11/4-1245 with man and woman talking in JJ, first audio here from them this season. (Heinen)
- 756 NEW ZEALAND 1YA Auckland end of EE newscast by a man then into 1940's standards 1311 11/4. (Heinen)
- 756 WEST GERMANY Braunschweig 0417 10/22 GG talk by man, good. (Hakiel)
- 765 SENEGAL Dakar 2343 10/22 plinkety-plink mx with odd vocals, good. (Hakiel) Sounds like you really enjoyed it-Chuck) 0609 10/29 strongest I've heard it in years w/AA chanting, FF anncrs. No ID but got a bunch of clean tape for my collection. (Baskind)
- 770 COLOMBIA HJKH Bogota assumed the one here 0203 10/29 with plenty of RCN mentions, but no local ID. (Baskind)
- 774 SPAIN synchros 0454 10/3, man and woman in SS, good. (Hakiel) 0654 11/6 decent signal, man in SS. Absolutely horrible het. Loop bearing N/NE,

- LSR fade by 0658. Another new TA. (Baskind)
- 783 PORTUGAL Miramar 2256 10/26 pop mx, man and woman in PP, good. (Hakiel)
- 792 SPAIN Sevilla 2323 9/12 SS talk by man, fair. (Hakiel)
- 820 ALASKA Fairbanks KCBF 10/30 1532 sports news, temperature minus 3 at the studio, into easy-listening vocals but also heard a promo for a country countdown. Loud and clear. (Wood)
- 825 ST. KITTS R. Paradise Basseterre 2328 10/29 w/Black-oriented EE gospel. I know this is a regular on the east coast but this is the first time I've ever heard them. (Baskind) Funny how I can hear them on car radios up in the Northeast but it takes a good radio and night in the South-east-Chuck. 9/9 0215-0230 Voice of Liberty program, ID male anncr, local time 10:30. 0230 the Mountaintop Messenger Program. QRM from unid with hockey game. (Kemp)
- 827 UNID perhaps Morocco w/fair carrier but no audio 0627 10/29. Senegal and others in strong at the time. (Baskind)
- 830 BELIZE R. Belize getting blasted by WCCO for a change 0309 10/29. End of 9 PM news, quiet instrumental mx. (Baskind)
- 837 AZORES Ponta Delgada 2338 10/22 PP talk by man, fair. (Hakiel)
- 846 ITALY Rome 0233 9/7 II talk by woman, fair. (Hakiel)
- 855 SPAIN Murcia 0352 10/22 SS talk by man and woman, pop mx. (Hakiel)
- 864 FRANCE 0433 10/23 soft mx, FF talk, fair. (Hakiel)
- 891 ALGERIA Algiers 2310 10/22 AA mx and talk, good. (Hakiel) Presumed 0622 10/29. Strong 1 KHz het against WLS during favorable cx from North Africa. Not a bit of audio. Maybe I'll catch WLS off some evening. (Baskind)
- 930 PERU Lima R. Moderna OAX4E 10/30 0715 SS pops show from Los Angeles; little KHJ on southeast Beverage. (Wood)
- 945 FRANCE Toulouse 0507 10/2 AA vocal by man, fair. (Hakiel)
- 963 INTERNATIONAL WATERS R. Caroline 0515 10/2 r&r mx, EE talk, fair. (Hakiel)
- 970 ALASKA Fairbanks KIAK 10/31 1600 ID "First by a country mile, KIAK Fairbanks". Into Mutual news, 1603 local news, temperature minus 5, AST time check. Easier here now that KPUA has moved to 670. (Wood)
- 980 BRAZIL R. Nacional, ZYH707 10/30 0825 Dale Carnegie type self help talk, address. Many Brazilians dominant tonight. (Wood)
- 1008 NETHERLANDS Flevoland 0546 10/2 pop mx, man and woman in DD, fair. (Hakiel)
- 1010 CUBA R. Guama CMAM Guane 0600 10/29 w/Cadena Provincial ID // 1020. Badly distorted audio. Sounds like it's being re-broadcasted from another station. (Baskind)
- 1010 MEXICO Guadalajara La HL XEHL 10/22 0620 ID "en HL, otro exito para ti", rock, dominant. (Wood)
- 1017 WEST GERMANY Rheinsender-0039 10/27 soft instrumental-mx, poor. (Hakiel)
- 1035 PORTUGAL Lisbon 0642 10/29 peaking to fair level but with deep LSR fades. Gone by 0650. Two crazy sounding guys cutting it up in PP. Have no idea what they were saying, but sounded as if they were having fun. And so am I, with this low sunspot cycle. Good tape for file. (Baskind) 2226 10/26 US r&r mx, PP talk, good. (Hakiel)
- 1044 MOROCCO Sebaa Aioun 0012 9/9 excited AA talk by man, fair. (Hakiel)
- 1062 PORTUGAL San Salvador 2228 10/26 PP talk by man, good. (Hakiel)
- 1071 INDIA Rajkot 10/31 1550 Urdu talk on azadi (freedom) and late Prime Minister Lal Bahadur Shastri. This one and 1134 are dominant every morning now. (Wood)
- 1089 ENGLAND unid 0534 10/2 EE talk, r&r mx fair-good. (Hakiel)
- 1100 ANTIGUA ZDK St. John's 0502 10/30 well u/WNNE, CMKF and the rest w/same carted mx outro I taped back in July. (Baskind)
- 1107 EGYPT Batra 2338 10/10 AA talk and mx, fair. (Hakiel)
- 1127 COLOMBIA unid 10/26 0420 time check "en Colombia, 11:20". Julio Iglesias and other current Latin standards. This is not the same as another unid, probably also Colombian, being heard on 1125. (Wood) Sure this isn't just long-time 1127 resident Costa Rica?? Chuck
- 1134 YUGOSLAVIA Biograd 2350 10/16 EZL mx, talk in Slavic type language, fair. (Hakiel)
- 1165 ANTIGUA Caribbean Radio Lighthouse St. John's 2346 10/29 w/EE religious programming at very good level. (Baskind)
- 1175 UNID I've yet to ID this little pest, heard most recently 0250 10/29. Best just before s/off around 0300. GMT-5 TC's, sometimes w/chimes. LONG political SS talks, "contradora" mentions. Thought I heard a "Radio Bellin" ID or similar. SS pop mx. Used "Chariots of Fire" theme on promo. CA? A Colombian? Clandestine? Ideas appreciated. (Baskind) Sure, it's Radio Belen, Santiago, Panama which Richard Wood has heard and was heard very well by me 11/3 until 0400 s/off, calls mentioned but I did catch them, will listen to the tape and pass them along-Chuck

- 1179 JAPAN JOOR Osaka 10/19 1558 ID as "Mainichi Hoso" and ads. Belongs to famous Mainichi newspaper chain. (Wood)
- 1180 COLOMBIA unid here u/Reloj and WHAM 0413 10/30. (Baskind)
- 1205 CAYMAN R. Cayman, Georgetown 0220 10/29. Old US pops w/fair signal but really low mod. (Baskind)
- 1206 FRANCE Bordeaux 0633 10/28 FF talk by man and woman, good. (Hakiel)
- 1215 ALBANIA Lushnje 0429 10/3 Albanian talk by man, ID. Giid. (Hakiel)
- 1250 ALASKA Homer-Kenai KBBI 1545 11/3 "Sunday morning" show from CBC Toronto, 1600 local ID. First time this season. Has applied for 10 kw on 890--don't look forward to that which will make Adak-890 almost impossible. (Wood)
- 1251 LIBYA Tripoli 0117 10/222 AA talk by man, fair. (Hakiel)
- 1314 NORWAY Kvitsoy 0349 10/27 pop mx, Norse talk, xint. (Hakiel)
- 1332 ITALY Rome 0426 9/19 II talk by man and woman, pop mx, fair. (Hakiel)
- 1360 VENEZUELA Maracaibo, Catatumbo Internacional YVTI 10/22 0555 time check, Maracaibo ad. About the easiest YV here. Dominant. (Wood)
- 1395 ALBANIA Lushnje 2246 10/2 FF talk by woman, xint. (Hakiel)
- 1422 ALGERIA Alger 0512 10/18 man in AA chants, fair. (Hakiel)
- 1458 ALBANIA Lushnje 0443 10/18 woman in Greek talk, good. (Hakiel)
- 1467 MDANCO Monte Carlo 2235 10/26 religious pgm w/EE preacher, good. (Hakiel)
- 1510 MEXICO Veracruz R. Veracruz XEJPM 11/3 0415 music petition "En XEJPM a favor de Ignacio"; romantic mx, some almost GG-sounding oompah bands; ad for seafood restaurant, CST time checks. Later drowned by more usual XELW. (Wood)
- 1510 MEXICO Ciudad Guzman R. Felicidad XELW 11/3 0430 took frquency over from XEJPM, spot for agriculture, phones "aqui en Ciudad Guzman". (Wood)
- 1521 CZECHOSLOVAKIA Kosice 0405 10/3 pips on the hour, Slavic talk, fair. (Hakiel)
- 1521 SAUDI ARABIA Daba 0306 10/12 AA vocals and talk, good. (Hakiel)
- 1550 COLOMBIA unid 11/1 0500 Colombian national anthem, 0502 off. Quite good. (Wood)
- 1557 FRANCE Nice 0510 10/12 AA pgm w/AA mx and talk, good. (Hakiel)
- 1560 MEXICO Lazaro Cardenas, La Voz del Valle XELAC 11/1 0458 s/off "XELAC La Voz del Valle le desea muy buenas noches". Into five verses of national anthem with booming drums. Atop KPMC and another XE. (Wood)
- 1566 TUNISIA Sfax 0457 10/10 AA mx w/male vocalist, fair. (Hakiel)
- 1575 PORTUGAL Porto Canidelo 0413 10/10 pop song "Cecilia", PP talk, fair-good. (Hakiel)
- 1584 SPAIN graveyarders 0415 10/10 pop mx, SS talk, mixed w/others, fair. (Hakiel)
- 1585 THAILAND several listed 10/30 1545 Thai talk, Thai pop mx, 1600 time signal. Quite good. No // observed. (Wood) 1575?? Chuck
- 1593 WEST GERMANY Langenberg 0507 10/15 GG talk by man, poor-fair. (Hakiel)
- 1610 ANGUILLA Caribbean Beacon, wall to wall 0407 10/29 w/EE preaching, religious mx. (Baskind)
- 1611 VATICAN 0524 10/3 religious songs, GG talk by man and woman, fair. (Hakiel)

Nice to be able to type a column this week. Don't deprive me of the pleasure next week guys, OK? Sunspots are way down and things are OK so take advantage of Mother Nature and hear some stuff and send it in to IDX....

I need for you guys to please put your names after each log you send in. When I cut them up into strips to put them in order, there has to be something on each and every log to tell me who it came from. Not good enough to put it at the end of the page.....

Chris Baskind-Hattiesburg, MS DX400, loop, 400' LW  
 George Hakiel-W. Islip, NY R71A, LW's, phasing unit  
 Wayne Heinen-Coorsland, CO R390A, CV591, Radio West MW1 loop  
 Pete Kemp-Bethel, CT R2000, SM2  
 Richard Wood-Hilo, HI R71A, R1000, 4 Beverages, phasing unit, preamp

And lastly, welcome to Pete Kemp and welcome back to Chris Baskind.

One of the mysteries of DXing on the BCB is how much sensitivity is needed in a receiver. Several articles have been published discussing this subject as it relates to the level of noise found on the BCB. These articles show a considerable divergence of opinion not only concerning the level of noise but as to the type of noise that causes the most problems.

The area of signal strength has been covered by various authors. They have discussed this subject in terms of Input Intercept, IMD, and the performance of various mixer types.

I wanted to look at these subjects from a practical viewpoint. I felt we needed an accurate determination of the level of signals vs. noise on the BCB. These levels determine the sensitivity vs. strong signal handling needs in a receiver. Once these levels have been established, we can look at the receiver choices available. I set out to run a series of experiments to determine the levels of signal and noise on the BCB.

#### Test Equipment

Controller : HP-85 Computer

Receiver : HP-3586C Selective Level Voltmeter

Bandwidth - 3.1KHz at -6dB - 3.7KHz at -60dB

Input Impedance - 50 ohms

Scan Frequencies - 400KHz to 1600KHz

Antenna : 100' longwire laid due north

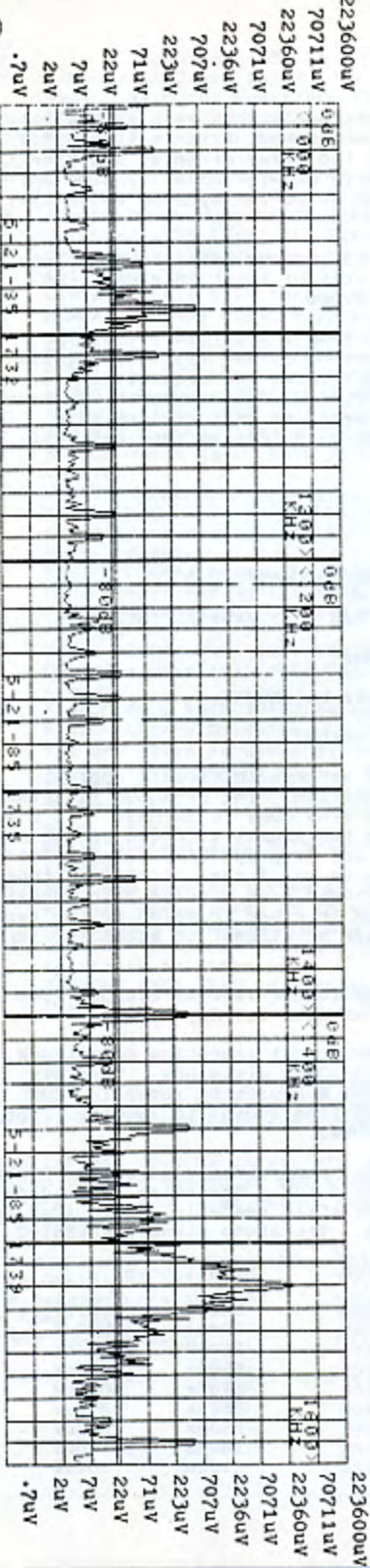
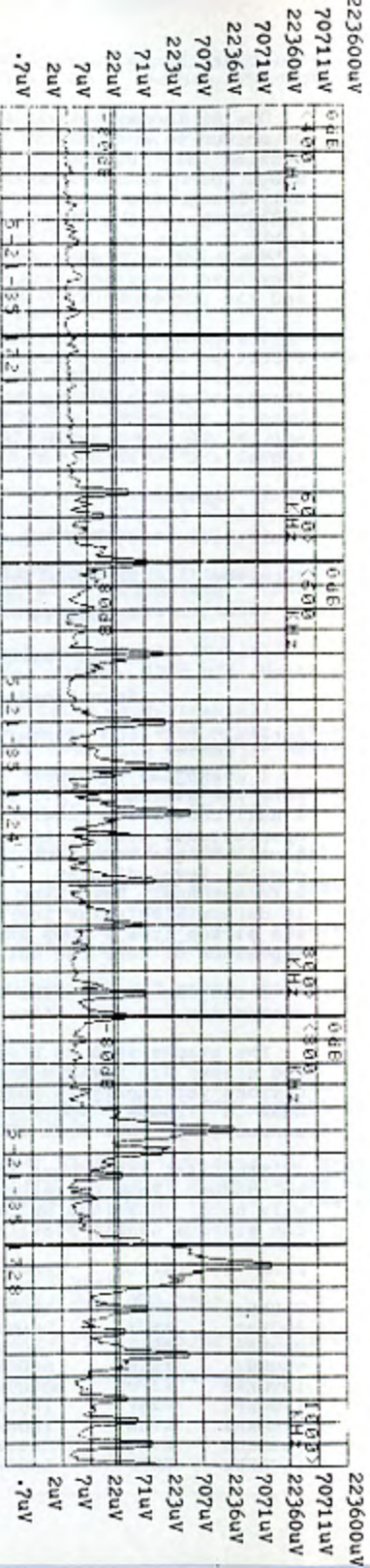
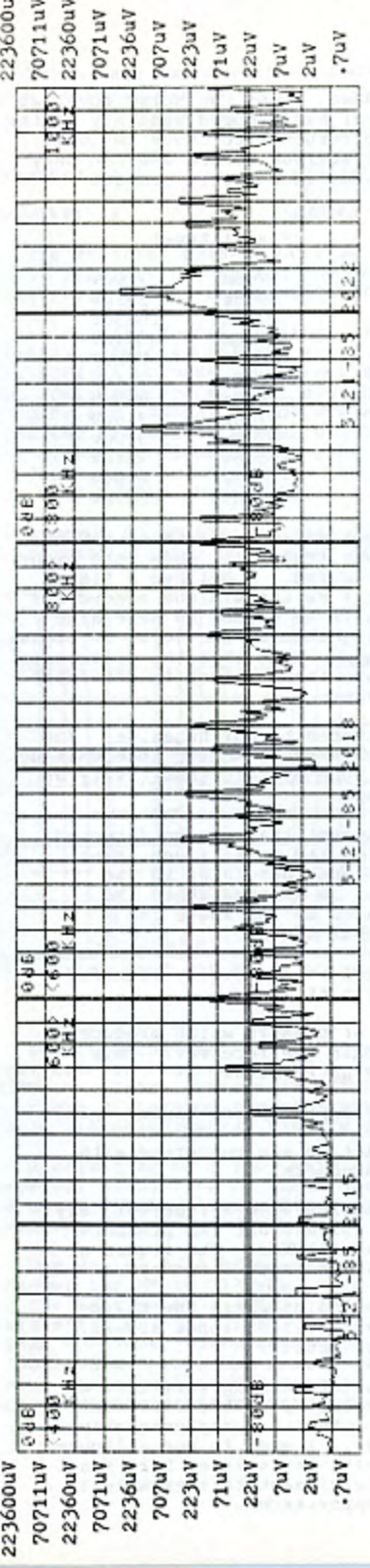
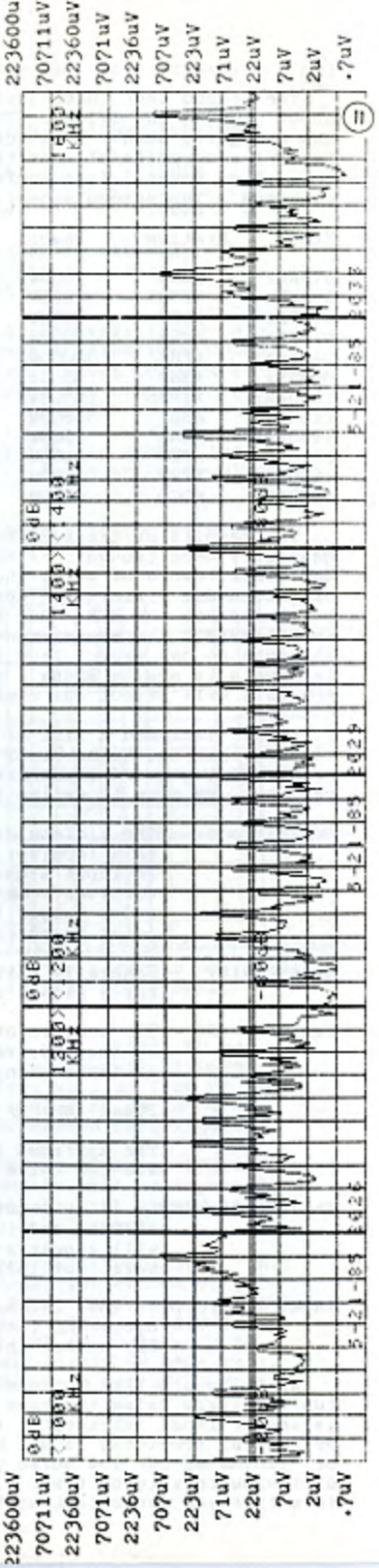
I chose the equipment settings and antenna to closely approximate the average DX'ers reception condition. The HP-3586C is actually a dual conversion receiver. It tunes from 50Hz to 32.5MHz. It's microprocessor controlled. It measures the signal strength at the input jack, in this case from the antenna, and displays this value on it's digital level display. It's accurate to +/- .2 dBm. I chose a long wire antenna. This type of antenna should give a worse case condition in determining noise levels but should be close in value to the average pickup from a loop antenna. I made no attempt to match the input impedance or tune the antenna.

I ran two tests. The first was run in the late afternoon. The second was run just after sundown. The date was May 21, 1985.

The graphs show us a picture of the actual reception conditions. The graphs are divided horizontally in 10KHz divisions. They are divided vertically in 10dBm steps. The measurement range is from 0dBm to -120dBm. The first graph runs from 400KHz to 1000KHz. The second graph runs from 1000KHz to 1600KHz.

The first test shows the noise level consistently at about -95dBm to -97dBm. This corresponds to 4uV to 3.1uV. The noise level didn't vary much. Stations below -80dBm were still readable. 7 to 12uV is the minimum usable sensitivity needed. The strong signals measured:

| Freq    | Station | Power | Distance | Signal Level |         |
|---------|---------|-------|----------|--------------|---------|
| 710KHz  | KHPC    | 5000W | 60Miles  | -53dbm       | 501uV   |
| 850KHz  | KMDY    | 5000W | 20Miles  | -39dBm       | 2509uV  |
| 910KHz  | KOXR    | 5000W | 8Miles   | -26dBm       | 11207uV |
| 950KHz  | XEGM    | 5000W | 150Miles | -55dBm       | 398uV   |
| 1090KHz | XEPRS   | 5000W | 167Miles | -51dBm       | 630uV   |
| 1400KHz | KAAP    | 1000W | 12Miles  | -56dBm       | 354uV   |
| 1450KHz | KVEN    | 1000W | 12Miles  | -55dBm       | 398uV   |
| 1520KHz | KTRO    | 5000W | 6Miles   | -18dBm       | 28150uV |
| 1590KHz | KOGO    | 5000W | 12Miles  | -53dBm       | 501uV   |



The second test, done just after sundown, shows the noise level at about -108dBm to -113dBm. The noise level had dropped suddenly as the sun was going down. This noise level corresponds to .89uV to .5uV. Several microvolts of sensitivity is the minimum needed and can only be used on several frequencies. The graphs show a very crowded spectrum. The strong signals measured:

| Freq    | Station | Power  | Distance | Signal Level  |
|---------|---------|--------|----------|---------------|
| 670KHz  | KWNK    | 1000W  | 20Miles  | -57dBm 316uV  |
| 690KHz  | XETRA   | 50000W | 150Miles | -59dBm 251uV  |
| 850KHz  | KMDY    | 5000W  | 20Miles  | -43dBm 1583uV |
| 910KHz  | KOXR    | 5000W  | 8Miles   | -36dBm 3544uV |
| 940KHz  | KPRE    | 50000W | 186Miles | -58dBm 282uV  |
| 950KHz  | XEGM    | 5000W  | 150Miles | -56dBm 354uV  |
| 1090KHz | XEPRS   | 50000W | 167Miles | -48dBm 890uV  |
| 1160KHz | KSL     | 50000W | 600Miles | -57dBm 316uV  |
| 1400KHz | KAAP    | 1000W  | 12Miles  | -57dBm 316uV  |
| 1450KHz | KVEN    | 1000W  | 12Miles  | -56dBm 354uV  |
| 1520KHz | KTRO    | 1000W  | 6Miles   | -48dBm 890uV  |
| 1590KHz | KOGO    | 5000W  | 12Miles  | -45dBm 1257uV |

The results of these tests show a lower noise level than what has generally been thought. I believe further tests will show both higher and lower levels of noise than what I measured. I believe a figure of just under 1 microvolt sensitivity will be the minimum needed for a receiver on the BCB. But more tests will be needed to determine this figure. The measurements I made also show us the level of signal strength we can expect from local stations. Note that the difference in levels is nearly 80dBm. Now we can use these values to determine how this will affect our choice of receivers.

I have included a list of receivers tested by QST Magazine. You can see that the Noise Floor for all receivers is better than what we need. What we need to determine is how much of this sensitivity we can use. We need to define several terms:

**Noise Floor** - The minimum discernable signal that can be detected in a receiver. To test for the noise floor adjust an input signal, from a signal generator to the receiver, until the level is reached where the audio output level increases by 3dB above the point measured with no input signal.

**Sensitivity** - Generally this is the level in microvolts required for a signal to noise ratio of 10dB.

**Two Tone IMD** - The measure of the range of signals which produce no spurious responses within the receiver. This is found using the following formula.

$$2\text{Tone IMD} = 2/3(\text{Input Intercept} - \text{Noise Floor})$$

The spurious responses that we are concerned with are the third-order IMD products.

**Third-Order IMD** - If we input two frequencies into a receiver, say 1070KHz and 1090KHz, the third-order IMD products will appear at 1050KHz and 1110KHz. The figure of merit for this test is called Input Intercept.

**Input Intercept** - This is the theoretical point where the third-order IMD level equals the level of input signal. The higher this figure the better.

What I would like to do now is to conduct an imaginary test of two receivers using the same values of Noise Floor but different values of Input Intercept. I used values that are representative of typical receivers in use by BCB DX'ers. I want to use a figure of -120dBm as our low noise point. I think tests later this year will show this to be true. I've tried to present this example in a form that you can relate with your own experiences.

Let's take two imaginary receivers and see how these terms relate to performance.

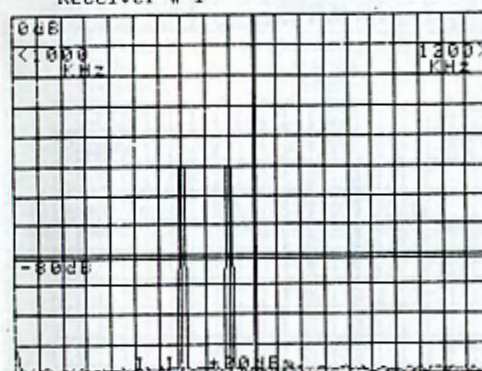
|             | Noise Floor | 2Tone IMD | Input Intercept |
|-------------|-------------|-----------|-----------------|
| Receiver #1 | -130dBm     | 93dBm     | +10dBm          |
| Receiver #2 | -130dBm     | 73dBm     | -20dBm          |

The measured noise floors of these receivers is the same. The first receiver has by far the better strong signal handling capabilities. Let's see how this affects reception.

It's early Monday morning. You have both receivers tuned to 1110KHz. KRLA is off the air. There's a weak station from Columbia HJEW at -110dBm. Receiver #2 is sensitive enough to pick it up. But Receiver #2 will also have third-order IMD products from 1070KHz and 1090KHz on 1050KHz and 1110KHz. If XEPRS is at -50dBm then the distortion products will also be -110dBm. On Receiver #1 the signal at 1110KHz will also be picked up but the distortion products will be well below the noise level. Guess which receiver has more usable sensitivity?

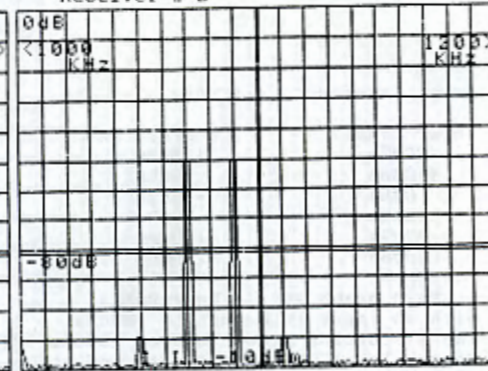
This graph shows the internal distortion products in two receivers with input signals on 1070KHz and 1090KHz at -50dBm.

Receiver # 1



Distortion products below noise.

Receiver # 2



Distortion products on 1050KHz and 1110KHz at -110dBm.

To determine what is the signal level that will cause IMD we will use the figures for NF + Two Tone IMD. Receiver #1 -130dBm + 93dBm = -37dBm. This means that this receiver will be free of these spurious distortion products with an input signal of up to -37dBm. There are only several signals received that exceed this figure.

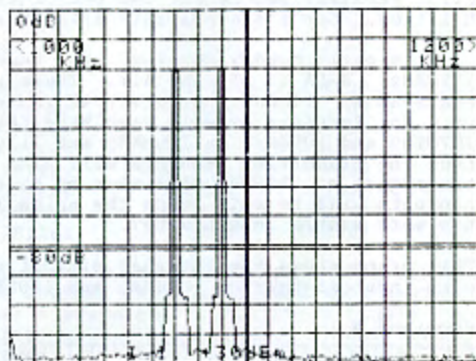
Receiver #2 NF + IMD, this gives us -130dBm + 73dBm = -57dBm. Receiver #2 is free of these distortion products with an input signal of up to -57dBm. There are a number of stations that exceed this level.

One way to help Receiver #2 is to use 10dB of attenuation. This changes the NF to -120dBm, which is still sensitive enough to pick up the station on 1110KHz, and changes the Input Intercept to -10dBm. This means our IMD is still -120dBm - (-10dBm) = 73dBm. -120dBm + 73dBm = -47dBm. This means our third-order IMD products will be -130dBm down or in the noise. We should just barely be able to receive the signal from Columbia. This is some help but still does not match the performance of Receiver #1.

The following is a list showing the relative merits of receivers having different Input Intercepts. Included is the level of the 3rd Order IMD developed inside the receiver at different input signal levels. Also included are graphs that shows signals at 1070KHz and 1090KHz. These signals are -20dBm in level. They represent two 50000W local stations. The graphs show a representation of the resulting distortion products developed in receivers with different Input Intercepts. The IMD Products will be at 1050KHz and 1110KHz.

Input Intercept +30dBm

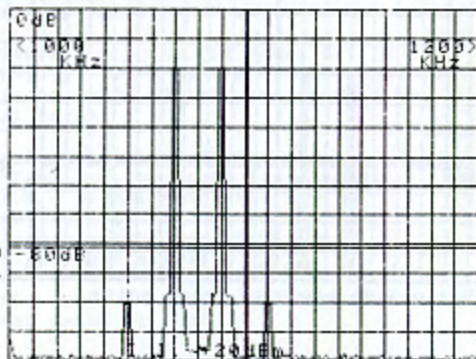
| Input signal | 3rd Order IMD |
|--------------|---------------|
| +30dBm       | +30dBm        |
| +20dBm       | + 0dBm        |
| +10dBm       | -30dBm        |
| + 0dBm       | -60dBm        |
| -10dBm       | -90dBm        |
| -20dBm       | -120dBm       |
| -30dBm       | -150dBm       |



The graph shows the input signals at 1070KHz and 1090KHz. The distortion products are -120dBm down. This is right at the minimum noise level. This Input Intercept is State of the Art.

Input Intercept +20dBm

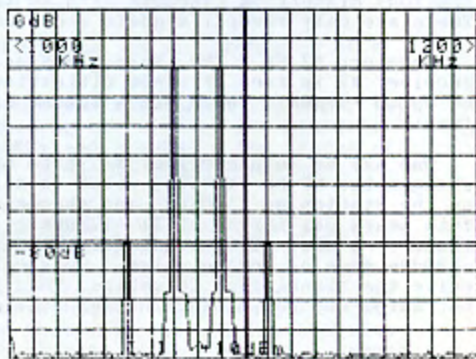
| Input Signal | 3rd Order IMD |
|--------------|---------------|
| +20dBm       | +20dBm        |
| +10dBm       | -10dBm        |
| 0dBm         | -40dBm        |
| -10dBm       | -70dBm        |
| -20dBm       | -100dBm       |
| -30dBm       | -130dBm       |



This graph shows the results with an Input Intercept of +20dBm. The distortion products are -100dBm down. The ICOM R-71A is specified at this value.

Input Intercept +10dBm

| Input Signal | 3rd Order IMD |
|--------------|---------------|
| +10dBm       | +10dBm        |
| 0dBm         | -20dBm        |
| -10dBm       | -50dBm        |
| -20dBm       | -80dBm        |
| -30dBm       | -110dBm       |
| -40dBm       | -140dBm       |



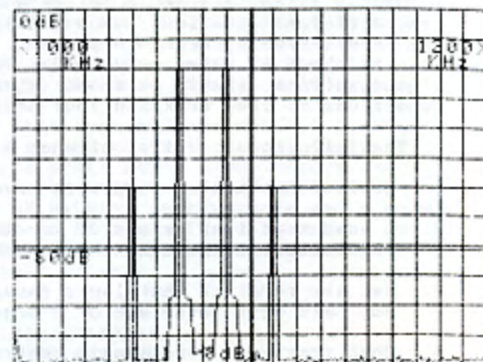
This graph shows the results with an Input Intercept of +10dBm. The distortion products are -80dBm down. The ICOM R-70 measures near this value.

This is a continuation of the list. Receivers with these values of Input Intercepts would not be known for their strong signal handling. However good DX is still possible with these receivers.

Input Intercept 0dBm

| Input signal | 3rd Order IMD |
|--------------|---------------|
| 0dBm         | 0dBm          |
| -10dBm       | -30dBm        |
| -20dBm       | -60dBm        |
| -30dBm       | -90dBm        |
| -40dBm       | -120dBm       |
| -50dBm       | -150dBm       |

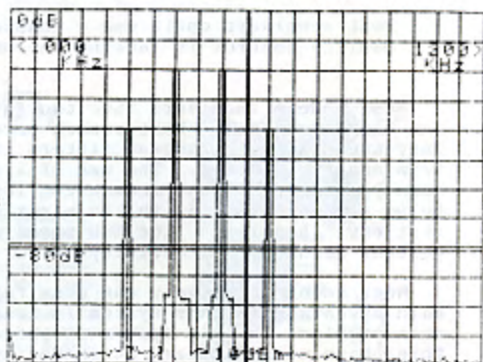
This graph shows the results with an Input Intercept of 0dBm. The JRC NRD-515 and the R-390A measure close to this value.



Input Intercept -10dBm

| Input signal | 3rd Order IMD |
|--------------|---------------|
| -10dBm       | -10dBm        |
| -20dBm       | -40dBm        |
| -30dBm       | -70dBm        |
| -40dBm       | -100dBm       |
| -50dBm       | -130dBm       |

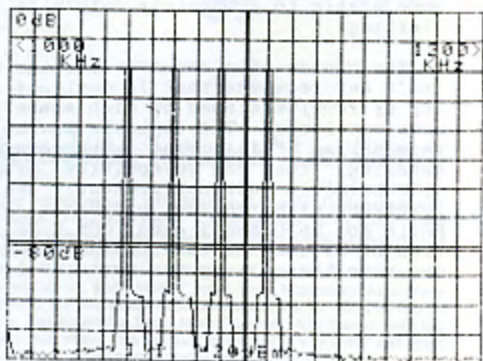
This graph shows the results with an Input Intercept of -10dBm. The Yaesu PRG-7700 measures near this value.



Input Intercept -20dBm

| Input signal | 3rd Order IMD |
|--------------|---------------|
| -20dBm       | -20dBm        |
| -30dBm       | -50dBm        |
| -40dBm       | -80dBm        |
| -50dBm       | -110dBm       |
| -60dBm       | -140dBm       |

This graph shows the results with an Input Intercept of -20dBm. The Kenwood R-1000 measures near this value.





I've tried to show how important strong signal handling is for DX'ing on the BCB. It is possible for you to determine what reception conditions are in your area. You can draw yourself a graph of your local stations. You can use your signal strength meter on your receiver, if it's been calibrated, to provide the levels for your graph. I've calibrated the meter on my ICOM R-71A. I measured the input levels for different "S" readings at 550KHz, 1000KHz, and 1600KHz. I can then get a fairly good idea of conditions when DX'ing from different locations. You can also estimate the values by using the levels from my measured figures. Say you have a 5000W station that is about 12 miles away. Your received signal strength, given a good antenna, should be about -45dBm. This will help you determine conditions in your area and your needs in a receiver.

The following is a list of what I consider important points.

1. Most of the better receivers have enough sensitivity for the BCB.
2. A number of less expensive receivers may appear to be deficient in sensitivity as compared to the better receivers.
3. But any receiver that lacks enough sensitivity could probably not take best advantage of a preamp due to poor mixer design.
4. Most receivers need a gain control, such as a stepped attenuator, between the antenna and the RF input jack.
5. The 20dB step of most gain controls is too broad. 5 and 10dB steps would allow finer control of the RF input.
6. Most receivers could use a complete alignment even when new. Quality control is lacking in some under \$1000 receivers.

Most modern receivers have two interrelated design techniques that can cause problems. Most modern receivers don't use preselectors. They use discreet bandpass filters that don't eliminate interference from nearby stations. The use of a preselector will tune the frequency of interest and reduce the level of nearby stations. This helps prevent problems in the mixer caused by these interfering stations. Looking at the BCB spectrum I've provided shows how important front end selectivity is for receivers on the BCB.

Most modern receivers use some type of Frequency Synthesis. The main advantage in this system is frequency stability. One of the main problems in this system is phase noise of the local oscillator. This phase noise appears as random noise nearby in frequency to the oscillator. Poor synthesiser design results in excessive phase noise which can cause reciprocal mixing. This hurts the ability of the receiver to resolve between two nearby stations. This shows up in the receiver tests from QST magazine. The notation, NL, mean they were unable to accurately determine the measurement because of noise limiting.

The choice of a receiver for the BCB is still a compromise. There isn't any receiver that is designed for DX'ing on the BCB. The majority of receivers used by club members were designed for use as short-wave receivers. The emphasis was on sensitivity and very wide and/or very narrow IP filtering. That elusive combination of good signal handling, front end selectivity, proper IP filtering, and a reasonable price is just not presently available. ICOM seems to be at the forefront with regards to dynamic range. It's possible to buy a ICOM R-71A for \$630 and a used ICOM R-70 for about \$400. I think the addition of an antenna tuner or preselector and some kind of filter mod can make these among the best receivers available.

For those of you that plan to keep the receiver you have, I have just one word for you, selectivity. Front end selectivity in the form of an antenna tuner or preselector and IP selectivity in the form of a cost effective filter modification. I recommend using the various club publications to find the best choices for your application and needs.

I think there is more information to be gleaned from the graphs. You can see the band is very crowded and how it's important to have good IP filtering. It looks like even less than 10KHz wide at -60dB is needed even for domestic DX'ing. The differences in the signal levels of different stations point to the need of a good AGC circuit.

I am going to continue running this type of bandscan. I plan one test in the middle of summer and a series of tests during the next DX season. I also plan some special tests using preselectors and tuned antennas. Just remember that the best receiver/antenna combination won't bring in that rare DX without perseverance and a good understanding of the proper methods of DX'ing. There have been reports of rare finds using inexpensive portables. I welcome any questions or comments concerning this article.

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## Neighbors tune in, like it or not

**NORTH POLE (AP)** — With a 50,000-watt radio antenna right next door, people living near KJNP are tuning into the station's religious programming more than they would like.

But the station's chief engineer says his practice of helping neighbors get rid of extraneous radio signals has prevented complaints from growing into serious problems.

The station can be heard on local telephone lines. It sometimes overpowers TV reception and sound. Occasionally, it echoes out from stereo speakers, whether the stereos on or not.

The antenna's signal, powerful enough that a fluorescent light held at its base lights up without being plugged in, is similar to that of radio stations throughout the country, said Eric Nichols, KJNP's chief engineer.

In 1970, when the station increased its signal from 10,000 watts to 50,000 watts, there were few close neighbors to object. But since then, development has brought subdivisions right up to the fringes of Jesus Town, a mission community affiliated with the radio station.

Complaints come into the station all the time, said Nichols, who estimates he has made adjustments to at least 250 pieces of television and stereo equipment in homes to solve in-

terference problems.

The station is not required to make the repairs, because it existed before the homes were built. But the repairs are usually inexpensive, and they work wonders for public relations, Nichols said. In the station's 18 years of operation, it has not had one violation with the Federal Communications Commission, he said.

The telephone problem still remains in many cases, but that is the phone company's responsibility, he said. "Right now that's in a state of flux, but the technology is there to fix it."

Daily News KODINE, AK



## Remembering Yesteryears' 'Lone Ranger'

Detroit, Nov. 5. The voices, writers, technicians and sounds effects people who produced "The Lone Ranger" for the legendary WXYZ-AM during Detroit's yesteryears were honored last month during the National Old Time Radio Convention.

Bruce Beemer, who played the Lone Ranger, was inducted posthumously into the Radio Hall of Fame. Ernie Winstanley, Rube Weiss and Whit Vernon, whose voices were used for other characters on the show, were honored as Radio Men of the Year. Also honored with that award were writer Tom Dougall, director Fred Flowerday and sound effects specialists Tony Caminita and Bill Hengstbeck.

Besides "The Lone Ranger," they also worked on programs like "The Green Hornet" and "Sgt. Preston." Dick Osgood, the veteran Detroit broadcaster who chronicled the history of WXYZ — now WXYT-AM — in his book, "Wixie Wonderland," also was named a Radio Man of the Year.

PETE KEMP

| Company     | Model #  | Noise Fig | IFD    | Input Int. |
|-------------|----------|-----------|--------|------------|
| Collins     | KWH-380  | -131dB    | NL     | NL         |
| Drake       | TR-7     | -133dB    | 84dB   | -7dB       |
| Heath       | SS-9000  | -138dB    | 89dB   | -4.5dB     |
| Heath       | SW-7800  | -131dB    | 74dB   | -20dB      |
| ICOM        | IC-720A  | -132dB    | 97dB   | +13.5dB    |
| ICOM        | IC-730   | -140dB    | NL     | NL         |
| ICOM        | IC-740   | -141dB    | 94dB   | -5dB       |
| ICOM        | IC-751   | -142dB    | 91dB   | -5.5dB     |
| ICOM        | IC-770   | -130dB    | 94dB   | +11dB      |
| J R C       | MKD-515  | -136dB    | 90dB   | -1dB       |
| Kenwood     | R-1000   | -133dB    | 76dB   | -15dB      |
| Kenwood     | TS-120S  | -139dB    | 75dB   | -26.5dB    |
| Kenwood     | TS-130S  | -138dB    | 79dB   | -19.5dB    |
| Kenwood     | TS-180S  | -139dB    | 82dB   | -16dB      |
| Kenwood     | TS-430S  | -136dB    | 94.5dB | +2.25dB    |
| Kenwood     | TS-530S  | -135dB    | 88dB   | -3dB       |
| Kenwood     | TS-830S  | -135dB    | 83dB   | -11.5dB    |
| McKay Dyack | DR 33C   | -137dB    | 90dB   | -2dB       |
| Swan        | Astro150 | -127dB    | 84dB   | -1dB       |
| TenTec      | Argosy   | -133dB    | 64dB   | -37dB      |
| TenTec      | Omni D   | -128dB    | 94dB   | +13dB      |
| Yaesu       | PRG-7700 | -126dB    | 75dB   | -15.5dB    |
| Yaesu       | FT ONE   | -133dB    | NL     | NL         |
| Yaesu       | FT-77    | -139.5dB  | 92dB   | -1.5dB     |
| Yaesu       | FT-102   | -127dB    | 96.5dB | +18dB      |
| Yaesu       | FT-707   | -126dB    | 76dB   | -12dB      |
| Yaesu       | FT-757GX | -140dB    | 90dB   | -5dB       |
| Yaesu       | FT-980   | -137dB    | 91dB   | +15.5dB    |

† Measured figure. This does not correspond to mathematical figure.  
 \* Not measure. This is derived from formula.

It should be noted that these tests were run on the 80meter band. The noise floor on the PCB is generally less due to the fact that the preamp is generally not in circuit and a wider filter is used. But sensitivity is not our problem on the PCB. Strong signal handling is the specification that most affects our ability to use all the sensitivity we have available.

DBM to UV Chart

| 0 dBm = 223600 uV   |                    |                    |
|---------------------|--------------------|--------------------|
| -120 dBm = .22360uV | -80 dBm = 22.360uV | -40 dBm = 2236.0uV |
| -119 dBm = .25089uV | -79 dBm = 25.089uV | -39 dBm = 2508.9uV |
| -118 dBm = .28150uV | -78 dBm = 28.150uV | -38 dBm = 2815.0uV |
| -117 dBm = .31585uV | -77 dBm = 31.585uV | -37 dBm = 3158.5uV |
| -116 dBm = .35439uV | -76 dBm = 35.439uV | -36 dBm = 3543.9uV |
| -115 dBm = .39764uV | -75 dBm = 39.764uV | -35 dBm = 3976.4uV |
| -114 dBm = .44619uV | -74 dBm = 44.619uV | -34 dBm = 4461.9uV |
| -113 dBm = .50059uV | -73 dBm = 50.059uV | -33 dBm = 5005.9uV |
| -112 dBm = .56167uV | -72 dBm = 56.167uV | -32 dBm = 5616.7uV |
| -111 dBm = .63021uV | -71 dBm = 63.021uV | -31 dBm = 6302.1uV |
| -110 dBm = .70711uV | -70 dBm = 70.711uV | -30 dBm = 7071.1uV |
| -109 dBm = .79340uV | -69 dBm = 79.340uV | -29 dBm = 7934.0uV |
| -108 dBm = .89020uV | -68 dBm = 89.020uV | -28 dBm = 8902.0uV |
| -107 dBm = .99860uV | -67 dBm = 99.860uV | -27 dBm = 9986.0uV |
| -106 dBm = 1.1207uV | -66 dBm = 112.07uV | -26 dBm = 11207uV  |
| -105 dBm = 1.2574uV | -65 dBm = 125.74uV | -25 dBm = 12574uV  |
| -104 dBm = 1.4109uV | -64 dBm = 141.09uV | -24 dBm = 14109uV  |
| -103 dBm = 1.5830uV | -63 dBm = 158.30uV | -23 dBm = 15830uV  |
| -102 dBm = 1.7762uV | -62 dBm = 177.62uV | -22 dBm = 17762uV  |
| -101 dBm = 1.9929uV | -61 dBm = 199.29uV | -21 dBm = 19929uV  |
| -100 dBm = 2.2360uV | -60 dBm = 223.60uV | -20 dBm = 22360uV  |
| -99 dBm = 2.5089uV  | -59 dBm = 250.89uV | -19 dBm = 25089uV  |
| -98 dBm = 2.8150uV  | -58 dBm = 281.50uV | -18 dBm = 28150uV  |
| -97 dBm = 3.1585uV  | -57 dBm = 315.85uV | -17 dBm = 31585uV  |
| -96 dBm = 3.5439uV  | -56 dBm = 354.39uV | -16 dBm = 35439uV  |
| -95 dBm = 3.9764uV  | -55 dBm = 397.64uV | -15 dBm = 39764uV  |
| -94 dBm = 4.4619uV  | -54 dBm = 446.19uV | -14 dBm = 44619uV  |
| -93 dBm = 5.0059uV  | -53 dBm = 500.59uV | -13 dBm = 50059uV  |
| -92 dBm = 5.6167uV  | -52 dBm = 561.67uV | -12 dBm = 56167uV  |
| -91 dBm = 6.3021uV  | -51 dBm = 630.21uV | -11 dBm = 63021uV  |
| -90 dBm = 7.0711uV  | -50 dBm = 707.11uV | -10 dBm = 70711uV  |
| -89 dBm = 7.9340uV  | -49 dBm = 793.40uV | -9 dBm = 79340uV   |
| -88 dBm = 8.9020uV  | -48 dBm = 890.20uV | -8 dBm = 89020uV   |
| -87 dBm = 9.9860uV  | -47 dBm = 998.60uV | -7 dBm = 99860uV   |
| -86 dBm = 11.207uV  | -46 dBm = 1120.7uV | -6 dBm = 112070uV  |
| -85 dBm = 12.574uV  | -45 dBm = 1257.4uV | -5 dBm = 125740uV  |
| -84 dBm = 14.109uV  | -44 dBm = 1410.9uV | -4 dBm = 141090uV  |
| -83 dBm = 15.830uV  | -43 dBm = 1583.0uV | -3 dBm = 158300uV  |
| -82 dBm = 17.762uV  | -42 dBm = 1776.2uV | -2 dBm = 177620uV  |
| -81 dBm = 19.929uV  | -41 dBm = 1992.9uV | -1 dBm = 199290uV  |

# MUSINGS

Paul Swearingen

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



Contributions have declined a bit during the past two weeks, although DX reports indicate a successful season in progress. You're all too busy to report, right?! Our next deadline, Dec. 6, will include your DX resolutions for 1986; after the "skip" week, the Dec. 20 deadline is for your comments about which foreign languages you speak or write, and how you use them in DX'ing; and the last deadline of 1985, Dec. 27, will be for your thoughts as to how you keep warm while DX'ing. And keep in mind that your Musings are fair game for inclusion in NRC's **DX Audio Service**, too. And now, on with it!

We've only two mid-U. S. contributors for this week's theme ...

**Peter A. Nolan - 7210 Staffordshire, #4 - Houston, TX 77030**

Notes and miscellany accumulated as new stations trickle in: 10-28, 5:15 am; was surprised to find previously-unheard KNOR-1400 Norman, OK dominating the GY channel; don't know how I missed this one. WFOR Hattiesburg was in briefly w/ them 5:36 with Southern MS weather, also new. Finally, 7:55 brought a long-wanted WPTI-1530 Dalton, GA - another one of those stns everyone seems to have heard but me. There they were, long after local sunrise, with various CM's (?? -pls) into an ID and network news, w/ WCKY and closer fare. 10-31, a call-letter change in WQJ-710 (ex-WGSS) Miami, "Aqui" in SS with morning news 6:23 am; on 700, WJW was being swallowed by a Venezuelan and a station I can't find listed from La Voz de Honduras, both new. More new sunrise loggings 11-1: KAWW-1370 Heber Springs, AR weak at s/on 7:00 am, Heber Sprgs weather into ARN news, and Fort Smith AR wx next at 8:31 (again well after local sunrise) from KTCS-1410. 11-2: 7:00 signing on was XERG-840 u/WHAS. 7:15, another long-wanted, semi-nearby station finally bagged in KICR-900 Oakdale LA, with csw and "your music station, KICR" type ID-like things. Even closer and longer-wanted KIXL-970 noted atop freq. 7:27 with their usual Christian fare. For variety, 11-2 sunset brought another close but new 900 logging, KALT-TX, 6:13 pm, with weather and "album country". 900 has really opened up here since local KIKR moved to 880 (ruining that frequency, of course ...). Also new that evening was WQKZ-1560 Bolivar TN, noted with a very weak s/off plugging its FM-97 sister at 6:00. 11-6, 6:00 am WEMA-1390 noted weakly signing on, into AL news; 6:19 another new one, WISK Americus GA, took over the frequency, with csw and local news. Finally, 6:46 brought a call-letter change in WPSO-1500 New Port Richey simulcasting their 105 FM of the same calls. Naturally, I'd never heard them under previous calls - and they'd just changed. And that, dear friends, brings us to the present, 11-9, 5:30, as I write (well, type on a computer keyboard) and listen fruitlessly for a TT'er on 1450 to break into his/her tone with an ID. Dream on ... still have not noted any Canadian clear channel daytimers (make that former daytimers) operating at night here. Most Canadian clears have strong Mexicans on them at night, and presumably the (ex) daytimers' DA's reflect that, but you'd still think SOMETHING would come through! Anyway, time to sign off and go back to my fruitless test tone. (Fruitless because the ID is not a-pear-ant ... oh, darn, there go those puns again, hi! Orange you grateful this is about over?) (You should be im-peached for apple-ying this artless form to your Musing, hi! -pls) 73's ...

**Bob McCoy -4618 Cooper Ave., Apt. 6 - Lincoln, NE 68506**

Now that I truly believe that the DX season has returned, I'll get a Muse in, and hope it makes it in time for the re-intro issue for members living north of the Kaw, south of the Platte, west of the Missouri, and east of the Front Range. I am 39, currently single, and have been an NRC member for ten years and some. I also DX in other parts of the radio spectrum (Gasp!), but MW has always been particularly challenging. This summer, I rejoined the ranks of the employed with a position as a security guard in a downtown office building from 11 pm-7 am. It's not much, but at least someone is paying me to stay up all night! A drawback is that MW signals are attenuated badly in the lobby where I spend most of my time. KPCR-1240, and its FM, KFRX-102.7, have studios in the building, although they will be moving sometime in the next six months. This is a result of new ownership for the stations and also for the building (which is going from offices to condos). They are hoping to go with a new tower to the east of the city, but the FAA is proving difficult about flight paths or some such. Because of my schedule, my DX'ing is largely confined to SRS and SSS, which isn't all that bad. With new things popping up on the clears, there are going to be some good catches available. DX so far has been decent: CHAM-820 making its presence felt on the new frequency, 9-27 at 7:45 CLT; KUYO-830, Evansville-Casper, WY, at 6:30 pm s/off, 10-28; KQLX-890, Lisbon, ND, at 7:35 am on 11-4; KPBC-1040, Dallas, TX, at 7:44 am, on 10-21; and WRCC-1450 Richland Center WI, at s/on (w/NA!) 4:58 am, 10-16. I noticed that KBUP-1030 sneaked onto this freq. while I wasn't paying attention over the summer; they had been listed for this for a year before actually moving from 1050, and I had been monitoring them to catch the change as soon as it occurred. Another regular is KHOG-1030, Farmington, AR, heard both SSS and SRS nearly every day now. Well, I will write again when there's news. 73's.

## Radio Roundup

**Pete Kemp** - P. O. Box 73 - Bethel, CT 06801

Greetings, all ... With the recent format changes at flagship station WABC, Talkradio programs are now going to be made available separately to local market stations ... The call letters WSAI, in Cincinnati, will be returning to the airwaves, this time on FM, replacing WKKK-FM ... KQV has been all-newsing it for ten years now. They originally began broadcasting as 82AE back in 1919 ... Xenia, Ohio's WBEI has changed its call letters to WJGY and its programming to Oldies circa 1940's through 70's ... Sports Director Tom Davis has jumped ship from WCBM to WBAL in Baltimore ... Also in the City of the Orioles, Johnny Walker has been named the city's most popular DJ ... WFBR now carries CBS news, on the hour ... WKTH will become the new NBC affiliate in St. Louis, effective the first of the year, replacing KOZK ... WKRO, in Columbus, is now on the air 24 hours a day ... The rock music industry is continuing its pressure on South Africa and its governmental policies. Following closely on the heels of the "Sun City" recording, it has been announced that some syndicated rock programs will no longer be available to South African radio stations. SABIC's popular station Channel 702 has lost its American Top 40 program with Casey Casem and Rocking America with Scott Shannon, while Radio Five loses Rick Dee's American Countdown ... KOA's talker Roy Fox has moved to the Big Apple's WCAI ... Dave Hull is the new morning man on KHL ... KDKA is now 65 years old and has begun broadcasting in stereo ... Beno Cook, ABC's answer to Jimmy the Greek, has taken up residence on KQV-AM, doing sports and Duquesne basketball ... Howard Stern has landed a spot on the radio dial following his quick dismissal from WNBC. He is doing his "act" on WKRK (FM) in the same afternoon drive slot ... It looks like the FCC is moving along its plans to expand the AM broadcast band. In a Report and Order issued October 31, the FCC has announced removal of radiolocation services, currently occupying the 1605-1705 kHz block July 1, 1987. The PR docket number for this action is 84-874 ... I had a nice visit to WINE-940, complete with a tour of the studios and then going "on the air" discussing cable television with the listeners. It was my first time back on the mike after many years. It was fun and rekindled many fond memories during the 1960's, when I was working my way through college, doing stints on WSTC, WOCS, and as a "stringer" for a few other stations ... So much for now; Happy Thanksgiving to all.

**Steve Kennedy, KB4PZX** - P. O. Box 402 - Waverly, TN 37185

Howdy to all in the NRC. Note the ham call; got my ticket 10-31 ... been on 40 CW during the day, so not DX to report. The XYL and I took a much deserved vacation, and delayed honeymoon, 10-28 to 11-3. We drove to Nashville to shop and for me to visit the XR of WSM-650. Most of us have seen our share of studios in use by major stations ... but to explore an XR site is another matter. WSM's XR is located in Brentwood, south of Nashville off I-65 on Concord Rd. We were met by Mr. Everett Lawson, the engineer on duty who spent an hour giving us the "twenty-five cent" tour of the awesome facilities of this wonderful old-line clear-channel station. I have written an article for NRC about the WSM XR and I recommend if at all possible to visit the XR of a major clear channel station ... it can be well worth the time. These older stations are in a class all by themselves ... and from then on a visit to the usual local operation is just ho-hum. Sometime in 1986, I hope to finally "retire" from commercial broadcast work to enter a second career that eventually will lead to a decent retirement. Bill Anderson, the popular country music star in the early '70's, had a song called "Country DJ" ... one line: "You can't get rich playing Country DJ" holds a lot of truth! (You said it -pls) I have witnessed a lot of changes in the business, and the music; and as I see it now ... it is time to finally call it quits. What we call country music ain't so country anymore. Most of my time is spent on 40 meters CW, and a lot of time is at the dials hunting down SWL DX ... not to mention that I am involved also as a volunteer fireman. I will renew my membership in NRC for my 16th year in this fine club ... so the BCB hobby is still in my blood. Have a nice holiday season.

**Bill Bergadano** - 39 Marble St. - Staten Island, NY 10314

I just remembered I'd better Muse or else you'll all be wondering about and worrying about my whereabouts ... please, allow me that fantasy! How's it going, guys and gals? I haven't graced (?) these pages in nearly a year. Job is going well, still in telemarketing - look, I couldn't crack into radio, and anyhow, it's fun. I handle our accounts in Missouri, Indiana, Illinois, Nebraska, Kansas, and Iowa. And sometimes I'll handle an order from someone from the west coast if the state sales rep is busy. I've upped my man an order to a \$500 sale, thanks to my DX knowledge. I'll be finishing writing the sale, and say the caller is from Omaha - "So, how is everything in the land of WOW-590?" The usual response is "Fine", followed by "How do you know of WOW?" Works well! And where else can you call customers miles away, and not worry about the bill? I upgraded my computer system in September and bought a disk drive. Before that it was a SLOW tape drive. Plenty of AMS's on disk, and SW skeds. I've not done any real MW DX - NYC is really hard to DX from, but my last newie was WCHV-1260 Charlottesville, VA. Verie in 9 days. However, on my way home from work at 5:30 pm, I'll tune MW, and when I get on the bridge, there's some good stuff. I can't DX the graveyarders, but it's fun to drive tuned to CBL, Toronto. Worked the 2-meter ham emergency comms at the NYC marathon last week; met the mayor, and Mr.

G., weatherman on WCBS-TV 2. 73's.

**Dave Schmidt** - 42 Chelwynne Rd. - Castle Hills - New Castle, DE 19720

It's been a long time since I've been in these pages, far too long (but not as long since I've been in the pages of DDXD, hi -pls). But with doing the weekly DDXD column, as well as working at Conrail fulltime and doing part-time work for 6 radio stations in the area, a few things had to take a back seat. I'm still spinning the dials a couple of days a week; I still like to listen on MW's even though it sounds like any other morning, lately! My last verie came in over a year ago after a follow-up, a nice letter from the off-the-air WIDD-1520 (they'll be back on soon; station was just sold). My verie total has frozen at 1117 but I'm hoping to correct that and send out a bunch of follow-ups, new reports, etc. In a few trips to NC this past year, I had a very enjoyable visit with Ed and Kerry Mitkus. They're located about 25 minutes from my in-laws. What a place; if there ever may be a perfect DX location, Ed may have it, as just about the whole band is open. The mountains in that area really eat up the groundwave signals. And my two good radio friends from that area have moved along; C. W. Williams is CE at WJUS-1420 and Paxton Durham is CE at WXLK (FM) in Roanoke, VA. Hats off to Craig Healy for a most enjoyable convention in RI this year also, and to John Malicky for his enjoyable company to and from the convention. Locally, radio-wise, WJBR-1290 has dropped its BBD/SID format in favor of rock oldies, and WFIL-560 has added Talknet after 8 pm weeknights. WIP-610 had a major housecleaning and is featuring a format of MoR and Talk, with Larry King overnight. In answer to a question, Special Temporary Authorization grants by the FCC permit a station to continue operation in other than a manner specified in the license. An example was the FCC permitting some south FL stations operating on regional frequencies to operate with higher power than the normally permitted 5000 watts, due to the interference from Cuban stations. This is also done when a station has a tower fall or has problems with storm-related damage (such as KQV's case). The station then has a certain time (usually 30 days) to get the problem corrected, but sometimes extensions can be granted, if necessary. And I believe STA's are also granted when a station is making changes in a directional system pattern, but that could also fall in the construction permit authorizations. Hope that answers the question. Good DX to all; I'll be back in the fold again, hopefully with some DX to report! 73's.

**Alphonse Tobia** - 7603 Linden Ct. - Newark, CA 94560

FLASH! Someone's testing on 890! Noted night of 11-7-85 at 6 pm PST - with music, no ID - then again at 9:45 pm PST with tone - noted off at 9:55 pm. Who? Maybe St. George? Signal here strong - does the BIG 89 get thru? Kind of - but only when there's just a carrier on the new station; music more or less wipes WLS out (Sob!! -pls). It's kind of like 780 and 670 - when WBBM and WMAQ are behind KROW and KBOI - now so is WLS behind the new station.

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

Hello and thanks to those members sending scans in as I hope you've been enjoying my column. I am attempting to have it syndicated in Sunday newspapers - hi! First off, very surprising to see in AM Switch, V. 52, #30 mention of an application for a new station on 890, 2500 D3, as Bethel Park is a sizeable suburb a few miles south of my home and the city and frequently visited, but no mention in the local paper. Also, as of this writing, WRVA-1510 Monroeville is off the air as WAHT - Lebanon/Annville, PA comes in well with fades with oldies, AP NX, and "Lebanon Valley's most listened-to station ..." To October (new stations underlined) and on Monday morning the 7th "Weatheradio!" WWTC-1280 Minneapolis at 2:03 am appeared with a slightly distorted and strong signal; verie info confirms my reception showing 15-minute wx block repeated 4 times hourly; local wx - extended wx - ad - travel - lifestyle - loca wx - regional wx - ad - travel - regional temps - local wx - national wx - ad - air travel - national temps and time zone, beats Top 40 - hi! (NOVA, are you paying attention? -pls) 10-12 at 7:14 am KSKY-660 Balch Springs (Dallas) TX popped in thru WNBC with a PSA and Farm Bureau Roundup; my guess he was on day pattern too early. 10-14 at 1:46 am WSSJ-1310 Camden, NJ punching through WJAS's slot with oldies and "The best mx in the Delaware Valley". On the 15th WCLW-1140 Warsaw, NY appeared at various times thru WRVA's null starting at 5:56 pm to 6:30 pm, s/off good with good copy on local ads; later at 6:50 pm for 2 minutes WLAJ-1330 Conway, SC slid in with wx, local ad, announcement for NASCAR live, and csw mx on "Conway's best country", apparently past reduced power time, then at 7:08 pm Urban Con mx on WNOO-1260 Chattanooga, TN and 7:15 s/off, but fading. 10-18 at sunrise brought a trio of northeasterners starting with WENE-1430 Endicott, NY at 7:37 am, WACK-1420 Newark, NY at 7:50 am ID'ing "Newark-Bloomfield-Greater Rochester" and WDEL-1440 Carbondale, PA at 8:05 am and "Mellow Gold", all in well. The new KBOA-830 Kennett, MD signed off at 7:30 pm on the 23rd mentioning their mailing address with WNYC in the background also going off. 10-24 needed for veried "C-KAN Country"-1480 Newmarket, ON followed CKAR-1350's lead at 7:23 pm. 10-26 during the Georgia Tech-TN football game brought WWSA-1290 Savannah, GA dominating the channel at 8 pm along w/possible WDNT-1280 Dayton, TN with csw mx, off at 7:30 pm. Then finally (!) wx for NB and the Maritimes at 11:06 pm brought CBA-1070 Moncton thru WIBC/CMOK as I suspect I'm on their fringe area. That's it ... until then, 73's!

## CRTC NEWS RELEASE

AM Station News from Canada

Jerry Starr

In addition to the list of new AM Allocations that appeared in the last DX News, a few more stations have surfaced on some of these new frequencies, nearly all of them existing operations moving to more desirable frequencies. We list them below. Note that some of these are already operating on these frequencies, info from the CRTC being terribly slow at times.

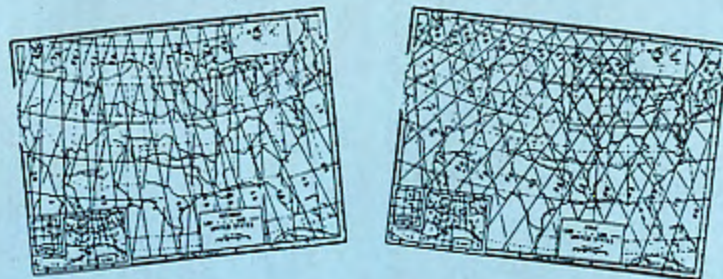
700 CHSJ NB Saint John 10000/1000 U2  
 750 CKGB ON Timmins 10000/5000 U4  
 880 CHQT AB Edmonton 50000/50000 U2  
 880 CKLQ MB Brandon 10000/10000 U4  
 1200 CFGO ON Ottawa 50000/50000 U4

And, for those of you who keep track of such things, the CRTC has shuffled the frequencies of some of the LPRTs as follows. By location:

AB CBDX Edson: from 1340 to 1540  
 BC CBDG Cassiar: from 1340 to 670  
 BC Copper Creek: from 1450 to 1540...oops, forgot the call, 'tis CBXH  
 BC CBDA Fort Nelson: from 1240 to 1560  
 BC CBUQ Lake Windermere: from 860 to 1150  
 BC CBKI Valemount: from 1450 to 1350  
 NS CBAV Sable River: from 1240 to 600

Aye?

ROBERT A. JONE  
 CONSULTING ENGINEER  
 LA GRANDE, ILLINOIS



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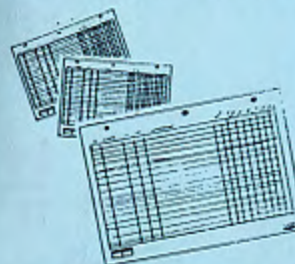


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