

DX News

* Serving DX'ers since 1933 *

Volume 64, No. 8 - November 25, 1996 (ISSN 0737-1659)



Inside...

2 .. DDXD

7 .. Special NRC Catalog Insert



CPC Test Calendar

CHUC	ON	1450	Dec. 1	0000-0100
KGWV	MT	640	Dec. 1	0200-0230
WWCN	FL	770	Dec. 1	0300-0400
WWCN	FL	770	Dec. 8	0300-0400
KAAM	TX	620	Dec. 9	0200-0230
KSTL	MO	690	Dec. 14	0300-0330
WWCN	FL	770	Dec. 15	0300-0400
WSAF	GA	1180	Dec. 16	0230-0300
KPOF	CO	910	Dec. 21	0200-0230
WWCN	FL	770	Dec. 22	0300-0400
WWCN	FL	770	Dec. 29	0300-0400
KIYU	AK	910	Dec. 29	0500-0530
KJSL	MO	630	Dec. 30	0300-0330

From the Publisher ... Jim's in Newfie, so no IDXD this week, and late FCC information, so no AM Switch column this week from Jerry. Sounds like a good time to include the latest NRC Product Catalog so that you can plan your holiday gift shopping (or compile your wish list of articles and books that you missed). You'll find the catalog is a pullout this time around; things worked out this year so that I could keep it down to 12 pages and place it in the bulletin as a centerfold.

We're experiencing some poor DXN delivery times, especially with #6, which should NOT be happening with the new 11-digit bar code system. So I'd like to track deliveries of DXN around the country through Issue #14, in mid-January. If you'd like to participate and help me out, here's how. I'm going to compile statistics on deliveries of DXN, and I'd like to have at least one person in each state, and perhaps two or more in each metro area, keep records through #15, starting with this issue, #8. You can either keep them on paper and mail them to me, or E-mail them periodically or all at once. I'll keep track of the results, compile some stats, and if there's an obvious problem, present them to the USPS to see if they will do anything to live up to their promise of better service. Here's what I need: (1) Your approximate "normal" date of delivery for all DXN's, to provide me with a baseline, (2) The actual delivery date for issues #8-15, and (3) Condition upon arrival, if less than acceptable (you decide what's acceptable) including folded edges or corners, torn outer pages, "scrub" marks on the outside, taped corners torn loose, or even total destruction. I'll compile results

after February 1 and let you know how the mailing process is going. If you're overseas, I'd also like to know, but unless you can E-mail me, don't feel obligated; postage is too expensive!

Prior experience is that areas east and north of, say, Nashville, have the poorest delivery times, especially those within a couple hundred miles of Washington, D. C. I rarely receive complaints from western states, except perhaps southern California. But now I'd like to be able to document any poor service and attempt to get the USPS to provide nothing extraordinary ... just the quality of service that they've promised to deliver.

To be fair ... if you are receiving DXN in the U. S. with a stamp on it, your address is not on the USPS database and may be incorrect. Please take a little time to verify it and even to check with your local post office to make sure that you are, indeed, using the exact address on their records. Some possible anomalies include addresses in rural areas which have new numbers due to 911 standardization, those without S/E/N/W designators in street addresses, those with 1/2, or other non-standard items in the address, some apartment numbers, any hyphenated address, a few P. O. Boxes, and some that were correct on a previous database but for some reason do not appear on the current database (go figure!). Thanks for your help.

Finally (ironically), #9 will either be very early or very late, due to the Thanksgiving holiday. The printer is closed over the long weekend, so we'll either mail on November 27 or December 2, depending upon when the printer gets DXN done ... and they've been slow the past two weeks. 73.

Welcome to these new members ... Bruce Wickert, Greenwell Springs, LA; Charles Smith NOPRR, Long Beach, CA; Chet Copeland, Washington, DC (rejoins); Dan Bartek, Wahoo, NE (rejoins); and Terence E. Feltz, Milwaukee, WI (rejoins).

DX Time Machine

From the pages of DX News:

50 years ago ... from the November 23, 1946 DXN: It was reported that, as the result of a flood of mail requesting a DX program from rarely-heard KGFX-630, Pierre, SD, the station promised to broadcast a special for the NRC on Dec. 12 from 2:30 to 3:30 am.

25 years ago ... from the November 27, 1971 DXN: R. J. Edmunds published "Alternative Amplifiers for Air-Cored Loops."

10 years ago ... from the November 24, 1986 DXN: An updated Cuban list of AM stations ran in this issue.

Domestic DX Digest

West: Bill Hale billhale@wazoo.com

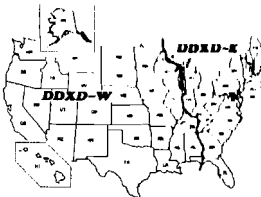
301 Boulder Bluff - San Marcos, TX 78666-8350

East: David Yocis DavidYocis@aol.com

David Yocis - 97 Clinton Ave. - South Nyack, NY 10960

DX Catches in the U. S. and Canada, with 24-hr. ELT

(Division line is
between East and
Central time zones)



DDXD-West

MEDIUM WAVE RAMBLINGS

- ◆ **Bill Dvorak** sez: "The summer Arbitrons for Madison have been published, and full-service WIBA 1310 has won the morning drive time with an 11.9 share (second was WIBA-FM 101.5 with 9.3). Overall, WIBA AM was 4th of the 16 stations. Other Madison AM's: WTDY 1480 (TLK) 8th, 4.6; WMAD 1190 (NOS, daytimer) 11th, 3.3; WHIT 1550 (SPT, daytimer) 13th, 2.0; WTSO 1070 (TLK) 14th, 1.9; and WIBU 1240 (C&W) 15th, 1.5."
- ◆ Welcome to new NRC member and DDXD-W reporter **Steve Ratzlaff**, AA7U of East Palo Alto, California. And **John Wilkins** says: "Heard a tantalizing het on 1375 last night (11/3) on the ENE (050) beverage (1800'), but no audio. I don't think the East Coasters even hear this one too often (presumed St. Pierre & Miquelon." [The FCC database lists this on 1370, last updated in 1993. Have they moved off the "split"? - Ed.]
- ◆ Thanks to **Bill Dvorak** and **Carl Dabelstein** for Graveyard updates. Remember, if a record-holder drops out of the Club, that station is up for grabs. So, if you see any names listed in the GYDXA columns whom you know of, or suspect, as being an "ex-member", let me know and I'll investigate. A couple of those occurrences have happened lately.

REPORTERS

RE-?? Russ Edmunds <usk77jnn@ibmmail.com>
 JS-AZ John Sampson Sun City West Collins R388 with 2' Sanserino Loop
 DE-MO Dennis Elya Jefferson City <delya@computerland.net>
 WH-CO Wayne Heinen Aurora Radio Shack TRF Model 12-655 <nrclog@filebank.com>
 BD-WI Bill Dvorak Madison Superadio III barefoot <dverak@aol.com>
 DK-CA Don Kaskey San Francisco Realistic SW-100 with SM-2
 MS-CA Mike Sanburn Bellflower GE Superadio or Dodge caradio
 CR-CO Craig Rathbone Denver GE Superadio <av568@freenet.uchsc.edu>
 DP-HI Dale Park Honolulu <dxfool@aol.com>
 JJR-WI John Rieger Milwaukee Yaseu FRG 100 with KIWA loop & MFJ-959B preamp <Winner98@webtv.net>
 TRH-CA Tim Hall Chula Vista Sony ICF-2010, KIWA Loop <msnl77a@prodigy.com>
 SR-CA Steve Ratzlaff, AA7U East Palo Alto AR7030 with outdoor active whip <steve_ratzlaff@smtp.svl.trw.com>
 VALDX Shawn Axelrod and Wayne McRae Valhalla Beach, Manitoba 2-ICOM ICR-70 with filter mods and PLAM board; 10 Beverages going W, S, and E ranging in length from 1200 to 2500 feet <saxelrod@mb.sympatico.ca>
 BW-MB Barry Wasyluk Winnipeg R7, Kiwa loop, beverages <barry@pangea.ca>
 JW-CO John Wilkins Wheat Ridge Grake R-8 + 4' box loop, 650' SE Beverage, 1800' ENE Beverage
 INet Internet resources
 Ed.-NM Editor Alamogordo

KREE RADIO
 WALTON STATIONS-NEW MEXICO INC.
 P.O. BOX 39
 RUIDOSO, NEW MEXICO 88345

SPECIAL

960 KPXQ AZ Phoenix - Now on the air with this call and REL format. (JS-AZ)
 1100 KCCF AZ Cave Creek - Local paper says will be on before January 1st with BBD format. (JS-AZ)
 1140 CHRB AB High River - 10/28 0748-0800 - Noted here with promo mentioning 1280 and C&W music to CHRB News on the hour. Apparently simulcasting with 1280. Heard again with continuous C&W 10/30 at 0745 with monster signal; better than CFXL ever was. (WH-CO)

CHRB AB High River - 10/30 0941 - First noted today with farm and ranch report, sports, weather, usual drive-time fare. Frequent IDs and mentions to *Tune to our new frequency 1140*, so must be simulcasting on 1280. Also heard with Chinese programming on 11/2 at 1942 and C&W music at other times. Always has a huge signal - CFXL never used to be so strong. So, new transmitter, or old CFXL's old one? Ex: 1280. (JW-CO)
 1320 KCLI OK Clinton - 11/2 2059 - Insurance ad. At 2059:55 legal ID as *The Authority (?)*, *Sports Radio WWLS Moore-Norman-Oklahoma City* and *KCLI Clinton-Weatherford*, then ESPN Sports. Soon lost to KXYZ. Ex: KXOL. (JW-CO)
 1420 KLTW AZ Sierra Vista - 11/1 0910 - Call ID barely heard in GY-type jumble. (Ex: KTAN. (JW-CO)
 1470 KAIR KS Atchison - 10/27 2058 - Break from *Hawks Network*, AM-FM ID, then faded under KYUU. Heard a couple of times subsequently. Seems to ID often (a pleasant change). Ex: KERE. (JW-CO)
 KZBK MO Brookfield - Still // KZBK-FM 96.9. (DE-MO)
 1560 KLTJ MO Macon - Not sure of the CLs, but is definitely // KZBK-FM 96.9. (DE-MO)
 1590 KMOZ MO Rolla - Not silent as previously reported. Is // to KDAF 97.5. (DE-MO)

UNIDs and UNID HELP

580 UNID ?? - 11/9 2305 - Poor signal, with Bengals football under CKY on West wire only. (VALDX)
 1420 UNID ?? - 11/3 2002 - Sporting event ending at 2002. Ad for Payless Cashways. Announcement that game cannot be reproduced without consent . . . of KCMX. Nothing listed under this call. (JW-CO) [New Log says KCMX is on 580 in Ashland, Oregon. There's a 1420 up the road a bit in Coos Bay, so just maybeee . . .? - Ed.]
 1520 KTRO CA Port Hueneme - Re: Editor's unID in Issue 3 . . . KTRO is now an EE-speaking talk radio station, with Col. Ollie North, Dr. Laura, etc. (MS-CA) [Ok. I'll count it as a tentative now, hi - Ed.]
 1560 KCJJ IA Iowa City - Re: the unID by PL-IL in Issue 5, may be KCJJ. KQEZ 97.9 could be the FM - in fact the only thing remotely possible with a 'Z' in the call, and either of the two lows on 1570 could be a match also. Mostly guesswork, but logical enuf I guess. (RE-xx)
 1590 UNID ?? - 10/24 0205 - Station carrying Bloombery Radio Network, over/under KLIV. Noted often since, but only IDs at :00 and I keep missing it. Highly suspect it as Ventura, who several weeks ago were SS. (DK-CA)
 1650 UNID ?? - 11/10 0622 - Poor signal, with Spanish talk by a woman. (VALDX)
 1680 UNID ?? - (no date or time) - SS, audible many nights, with talk and music, but quite weak. No idea who. Perhaps a harmonic? (JS-AZ)

DX AND EQUIPMENT TESTS

680 WJCEt TN Memphis - 11/10 0105 and 0110 - With blues music, under CJOB. (VALDX)
 WJCE- TN Memphis - 11/10 0100-0700 - Tried, not heard. Really thought this one had a chance. (TRH-CA)
 WJCE- TN Memphis - 11/10 - Didn't expect to hear with 50KW local on this frequency, and didn't. (BW-MB)
 750 KAMA+ TX El Paso - 10/19 0220-0226 - Very poor, with QRM from WSB and local buzz, with CIDs. (BD-WI)
 770 WWCN- FL North Fort Myers - 11/3 0300-0400 - Listened for, did not hear. (BD- WI)
 790 CIGM+ ON Sudbury - 11/11 0100-0130 - Heard bits of country music, then finally lots of CIDs in clear toward the end of the test. Sent thank you e-mail to station. New, ON #6. (TRH-CA)
 CIGM+ ON Sudbury - 11/11 0045 - DJ proudly announcing that they would be testing to the world starting at 1 AM. Test heard from 0100 to 0130 with several special IDs, usual music programming & two long periods of CIDs. (BW-MB)
 920 KBMA- TX El Paso - 10/12 0200+ - Not heard. (MS-CA)
 1220 WIMN+ MN Stillwater - 11/4 0130-0200 - Couple of very weak CIDs noted in KBNO's null. Had to review tape a couple of times to pull them out. New, for Minnesota #41. (JW-CO)
 1140 WAKK- MS McComb - 10/14 0130+ - Not heard. (MS-CA)

- 1330 WTPI- GA Carrollton - 10/26 0000 - Test tried for, but not heard. Listed as WTPI in NRC Log [as it is in FCC database - Ed.]. (JW-CO)
 1570 WYTI- VA Rocky Mount - 11/9 0000-0030 - Tried, not heard. (TRH-CA)
 1580 WHLY? IN South Bend - 10/26 0616 - Heard a Sinatra song at 0616, but have no idea if this was them. Otherwise, nothing heard on scheduled DX test. (JW-CO)

TIS & OTHER STUFF

- 184.3MIN MN Aitken - 11/9 1725 - Poor signals with Morse code IDs from the Lowfer. (VALDX)
 186.7LEK MN Aitken - 11/9 1618 - Good signals with Morse code IDs from the Lowfer. (VALDX)
 527 RWE CA Camp Roberts - 11/10 0727 - Morse code beacon. NEW. (VALDX)
 530 TIS MT Hardin - 11/11 0720 - Good signal on West wire over WQO624 with same message as 1610 station. (VALDX)
 530 KOJ880 AZ Lake Pleasant - With information on boating, camping, etc. at the lake. Run by the Bureau Of Reclamation. A regular here at 7-8 miles. (JS-AZ)
 WQO624 ND Devils Lake - 11/9 1624 - Good signal all weekend when CIAO was not in. NEW call sign and now only North Dakota road news. Ex-WTO624. NEW. (VALDX)
 620 TIS CA Inglewood - 10/21 1125+ - With mentions of Great Western Forum and roadways. (MS-CA)
 1610 WXK790 AZ Phoenix - Sky Harbor International Airport. Usual stuff about parking, which airlines serve which gates, etc. Not very strong at 30 miles during the day, and is inaudible at night (1610 is like a graveyard frequency here at night). (JS-AZ)
 1610 TIS MT Hardin - 11/9 2109 - Good signal, with talk about the Big Horn River and Yellow Tail Dam. Also heard 11/11 at 0720. (VALDX)
 1620 KLWD CA Lakewood - Heard very weakly in early October with community service-type stuff. Mixing with WQIA310 and CalTrans HAR. (JS-AZ)
 WQIA302 CA Burbank - Also very weak with announcement that the station is "brought to you by the City of Burbank and the Burbank Fire Department". (JS-AZ)
 UNID CA - Caltrans HAR testing. Somewhere in Orange County per recent IRCA report, the strongest of three heard on 1620 here, probably the one Tim Hall reported in Issue 4 (seems that either all or none of the three California TIS/HARs on 1620 are audible on any given night. (JS-AZ)
 WNWZ910 IL Bensenville - 11/10 1804 - Poor signal, with local info and clear ID. (VALDX)
 1620 WNYT218 IL Glen Ellyn - 11/9 2005 - Poor signal, with Glen Ellyn announcements and phone numbers. (VALDX)
 1680 TN Bluff City - 11/9 2012 - Poor signal, but a good het with a steady tone heard once station was zero beat on USB. Assume this is the Kintronics experimental station. NEW. (VALDX)
 1700 UNID ?? - (no date or time) - Occasionally hear a very weak TIS-type station here. Possibly in San Diego area as, in early October, heard mention of Chargers hosting the Raiders on October 23rd. (JS-AZ)

SPURS and HETS

- 1639.9 KWJC WA Green Acres - 11/11 0555 - With good signal, playing instrumental music. Clear AM and FM ID. Also heard 11/10 at 2154 with classical music. Finally a clear ID. NEW. (VALDX) [I'm confused here. I can't find a "KWJC" or a "Green Acres" in the new, or last year's Log. So, what's the scoop??? - Ed.]

PROGRAM and FORMAT NOTES

- 760 KGU HI Honolulu - 11/04 - Noted without CBC-TRN's "Roy Masters Show," which had aired Tu-Sat 0300-0500 EST but replaced by One-On-One Sports Network. Show still airs live at 1100-1300 on KWAI-1080. (DP-HI)
 840 KVEG NV North Las Vegas - 10/28 - Now airs "The Tom Leykis Show" in its entirety at 1806-2200 per show today. (DP-HI)
 860 KIVA AZ Phoenix - 10/28 - Still on with SS, although local paper said several months ago that they have been sold, and will be refurbished and go to a new format (all sports) with a new call. (JS-AZ)

- 890 WLS IL Chicago - 11/05 - Adds "Coast To Coast AM with Art Bell" per program today to become the show's 300th affiliate. (DP-HI)
 910 KXEB TX Sherman - 11/8 - Is now all-Beatles // KTCY. [INet]
 920 KHTL NM Albuquerque - 10/30 - Adds "Don and Mike," drops "Ken Hamblin Show" and tape-delays "Michael Reagan Show" per caller to Tom Leykis, which airs live on the station. (DP-HI)
 1060 KUKQ AZ Tempe - Switched to all-sports format and seems to carry the Sports Fan Radio Network. IDs as The Deuce. KUKQ call given infrequently, and local paper says they will change CL soon. (JS-AZ)
 KBNB TX Gilmer - 11/5 - Changed to these calls from KHYM. (INet)
 1110 KAOI HI Kihei/Wailuku &
 790 KKON HI Kealahou/Kailua-Kona - 10/28 - Major overhaul of programming with the return of standard time on the mainland. Station duo has replaced AP Network News with CNN Headline News, but retains simulcast of FOX-2 TV news at 5:30-6:10 pm local (2230-2310 EST). The stations also now air some shows live (Dr. Dean Edell, part of Limbaugh) and have "Larry King Live" at 7 pm local (2400 EST). (DP-HI)
 1420 KUJ WA Walla Walla - 11/04 - Per an 11/5 AP story via the AOL NewsPro service, KUJ aired a 36-hour stunt the day before--an "All Macarena All The Time" format! Even the Franklin County emergency dispatch center was concerned, as it called the station to find out if the DJ had died. Per owner Tom Hodgins, station went to its new format of CHR and 1980's hits today. Wonder if AP was actually referring to KUJ's FM sister, KNTL-FM 95.7. (DP-HI)
 1490 KWMC TX Del Rio - 11/5 - Changed to ABC Pure Gold from ABC Country. (INet)

MIDNIGHT TO 0800 HOURS ELT

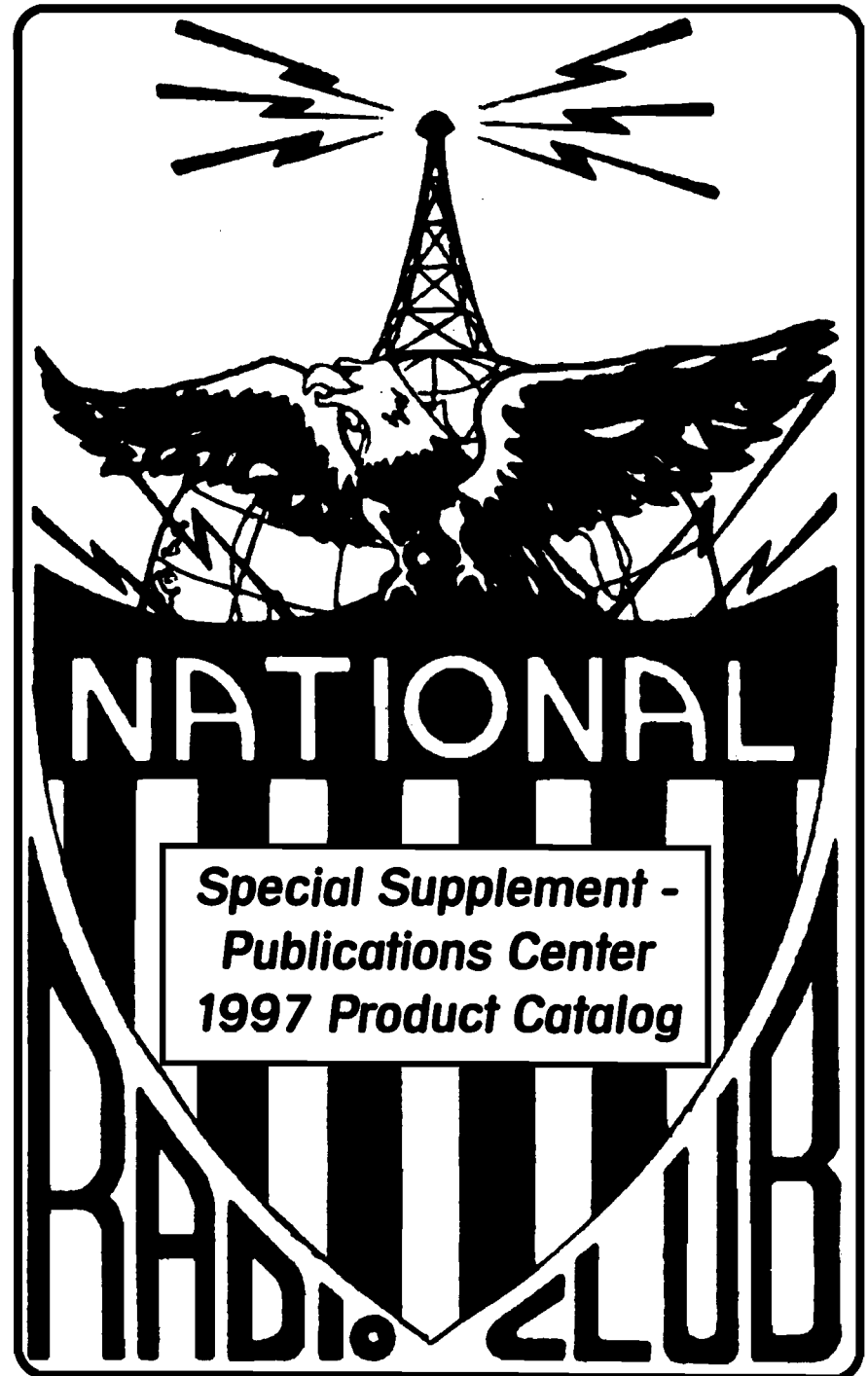
- 600 KNRO CA Redding - 10/20 0125 - With ID as KNR Sports. Atop all-KFRC slop. (DK-CA)
 620 KOTK OR Portland - 10/20 0115 - With ID Portland's Entertainment Station - KOTK, then more talk. (DK-CA)
 790 KABC CA Los Angeles - 11/6 0245 - Good signal, with election reports and talk about election. (CR-CO)
 800 WKZI IL Casey - 10/23 0700 - Call ID at :00 by man with hillbilly drawl, in XEROK null. Barely heard in QRM for Illinois #29. (JW-CO)
 CHAB SK Moose Jaw - 10/31 0759 - With C&W music, ID/jingle. Country 800 News at 0801. Fair, with no sign of XEROK. (JW-CO) [Wish I could say that, hi - Ed.]
 870 KLSQ NV Laughlin - 10/29 0200 - Finally heard ID quickly spat out by SS announcer, then back into Mexican music. Atop KIEV/WWL. (DK-CA)
 900 WLSA KY Pikeville - 11/11 0658 - In fair and alone over unID with station promo and many mentions of southern gospel format. (JJR-WI)
 910 KPOF CO Denver - 10/20 0751-0801 - Poor-to-fair, over/under WSUI, with instrumental Christian music. USA Radio news at 0755 into program Sunday Praise. (BD-WI)
 960 KPXQ AZ Phoenix - 10/30 0400+ - Ads for Q-96 Advertising at 602-955-9600 and Carol Bond Health Plan for. Q-96 jingle and SRN News. Ex: KOOL/KARZ. (MS-CA)
 1060 KIJJ TX Farwell - 11/1 0759 - With sign-on announcement: This is KIJJ beginning another day of broadcasting from God . . . Decent signal, but blown away 30 seconds later by KLMO's sign-on. New, for Texas #131. Anybody want to trade a Texan for a Mainer? A Vermonter? Or a New Hampshire? (JW-CO)
 1100 KFAZ FL San Francisco - 10/27 0144-0200 - With paid REL. KNZZ usually dominates frequency at night with KFAZ way beneath. (JS-AZ)
 1130 CKWX BC Vancouver - 10/27 0100+ - With all-news format, many CKWX News time IDs and local ads. On top of frequency, but with seemingly low modulation. QRM from C&W station (KWKH?) [I'd bet on it -Ed.] and an unID SS. Good indicator here of northern reception. (JS-AZ)
 1240 KELK NV Elko - 10/19 0300 - Thru QRM with ID. Soon back into mush. (DK-CA)
 KASL WY Newcastle - 11/6 0100 - CLs, just out of the mud long enough to hear KASL Newcastle and into news. I've been hearing them every night now. New one. (CR-CO)
 1250 KLLK CA Willits - 10/24 0136 - Solidly atop, then into Nirvana song. (DK-CA)

- 1260 KKSA TX San Angelo - 10/29 0756-0800 - Texas State Network news to an ID and hammered by KWYR. (WH-CO)
- 1310 KIVA NM Corrales - 10/21 0149-0206 - NOS format with many IDs. Weak, but on top of frequency. Semi-local KXAM Mesa almost inaudible here at night. (JS-AZ)
- 1400 KFRU MO Columbia - 10/23 0759-0800 - Poor; with legal ID heard during KADR dead air. Slogan *The one you can depend on.* ABC news at 0800. (BD-WI)
- 1450 WAOV IN Vincennes - 11/8 0358-0400 - Poor-to-fair, with Sports Overnight America, legal ID; national news, unID network at 0400; slogan *Newsradio 1450.* (BD-WI)
- 1460 KDMA MN Montevideo - 11/8 0230 - Weather forecast on the half-hour. *KDMA your station for great songs and Thanks for making us the sound of your life.* Strong lately with a lot of fading. (CR-CO)
- KKPR NE Kearney - 11/8 0255 - CLs and NOS music. Mixing with KDMA and I think KDMI (REL anyway). (CR-CO)
- 1470 KKTY WY Douglas - 11/9 0306 - *KKTY AM 1470* and *We've got Douglas covered* slogans. Strong signal. (CR-CO)
- 1490 KBLF CA Red Bluff - 10/24 0200 - With ID, above QRM. (DK-CA)
- 1500 KOMH OK Pawhuska - 10/19 0659-0701 - Poor, with satellite OLD, legal ID *Oldies Radio, AM 1500 KOMH Pawhuska-Bartlesville*; national news, unID'd network at 0700. (BD-WI)
- 1560 WPAD KY Paducah - 11/8 0210 - Good signal over Mexico. *We have decades of great music right here on WPAD.* (CR-CO)
- 1570 KYCR MN Golden Valley - 10/21 0758-0800 - Poor, on a very crowded band, with REL:AC, legal ID into USA Radio news at 0800. (BD-WI)
- KYCR MN Golden Valley - 11/1 0721 - Poor, in noise, with . . . 1570 KYCR . . . and CST TC. Faded right away and lost to presumed KOSZ's *Daybreak USA*. New, for Minnesota #40. (JW-CO)
- CKTA AB Taber - 10/6 0530 - Dominant, with CLs and C&W music. (MS-CA)
- 1590 KLLL TX Lubbock - 11/8 0150 - Slogans are *We are back* and *K Triple L*. C&W music and ads for Don Parks Car City. (CR-CO)

0800 TO 1600 HOURS ELT

- 570 KKFJ CA Alturas - 10/28 0927-0940 - With USA Network News and ad. Local ads for Alturas merchants. Good signal, but lots of KSFO slop. (DK-CA)
- 650 WKKQ MN Nashwauk - 10/31 0830 - News headlines, then *Stay tuned for Paul Harvey News and Comments coming up at eight O'Clock on your news leader*, WKKQ, then more headlines. Fair, with KMTI semi-nulled. (JW-CO)
- 800 KHIS CA Bakersfield - 11/08 0832 - Up briefly, over KSOS, with call ID and into REL:AC. Hafta chase this one for a report. (WH-CO)
- KSOS UT Brigham City - 10/11 0903 - *News every hour on the hour*, right here on KSOS after local news. Then into OLD music. Nice signal atop KGO splat. First time heard under any call. (DK-CA)
- 830 CKKY AB Wainwright - 10/31 0805 - NHL scores, mention of *CKKY Sports Line at 842-2559*. Local ads. Fair, in WCCO null. (JW-CO)
- 850 KICY AK Nome - 11/8 0946 - End of SSB, then 5:46, KICY, AM-8-5 before fading away. Was trying for KHLO, Hilo, but this is better! Normally dominant KOA absent. (SR-CA)
- 880 CHQT AB Edmonton - 10/1 0900 - Atop, with ID and news. (DK-CA)
- 940 KXUX OR Bend - 1-/24 1125 - Looped atop KFRE with solid signal. ID, ads, NOS music. (DK-CA)
- KBRE UT Cedar City - 10/28 1103-1122 - Nicely atop KFRE with female giving local news, sports, weather and ads. KXUX in there, too. (DK-CA)
- 970 KBBT OR Portland - 10/25 0839 - With ID, local ads, slogan *The Beat* and into AC rock. (DK-CA)
- 1050 CJNB SK North Battleford - 11/1 0801 - Female with news. 0805 man with sports. Local ads at 0807, then call ID. Haven't heard this old friend for awhile. (JW-CO)
- 1140t CHRB AB High River - 11/7 0830 - Heard CLs but not city. Many mentions of Southern Alberta. Later that evening I heard either a Japanese or a Chinese broadcast here with no IDs, assumed that it was CHRB re-broadcasting a shortwave station. Very strong all of the time. Has completely taken over 1140 here.

(continued on page nineteen)



This special pull-out section will allow NRC members to have access to ordering information for current reprints, other products, and all publications from NRC Publications. If you need any information on products that may still be available but are no longer listed in this catalog, please order ZAL (NRC Archived Publications List). This list includes items which are dated or have been superseded, including Bandscans and other early technical articles.

Remember, each purchase benefits your non-profit National Radio Club

Publications

NRC AM Radio Log 17th Edition - Order Item **ARL**
Holding the price for our members.

Over 6000 updates since the 16th edition!!! This 17th Edition is the 1996-1997 DX Season's edition of hobby's original BCB reference for the U.S. and Canada. Packed with the quick reference station data that you've always loved, it includes cross references by City and Call Letter.

Verie Signers List - Order Item **VSL**

NRC Night Pattern Book - Order Item **NPB - It's HERE!** New for 1997! The wait was worth it; Check is out today!

Totally redone, 200+ pages with patterns for stations in the U.S. Canada and parts of Mexico! Three-hole punched and updated through January 1, 1996. This book is designed to be used with the *NRC AM Radio Log*.

NRC Distance and Bearing Handbook - Order Item **DBH** New for 1997!

Latitudes and Longitudes for every station in the U. S. A. and Canada. Large type with formula and instructions by NRC'er Dave Sundius. Designed for use with the *NRC AM Radio Log*.

FM Atlas - Order Item **FMA 16th Edition**

Dr. Bruce Elving's new 16th Edition. Contains listings by frequency and alphabetical listings by State. State-by-state location maps. Translators are listed by state. Entries include Power, Antenna Height and Format.

Getting Started in Medium Wave DX'ing - Order Item **NMB**

Updated in 1995. This booklet is designed to assist the novice DX'er in pursuit of the hobby. It includes introductory articles on foreign and domestic DX'ing. Articles on QSL'ing, safety and DX gear are also included. (This book is FREE with a new membership in the National Radio Club)

Beverage and Longwire Antennas Design and Theory
Order: **BAM**

This manual is a compilation of numerous articles on the subject of design and theory of the beverage and longwire antennas that have appeared through the years in *DX News*. Some articles are available as reprints. This book gives details information on the theory of operation, construction and maintenance of a beverage antenna. Serves as an enhancement to Antenna Reference Manuals Volume 1 and 2. 5 1/2" X 8 1/2" booklet format.

BAM Contents:

The Coolum Beach Beverage 1983

Analysis of the Beverage Antenna

Part 1- Basic Theory

Part 2- Two Wire Phased Antennas

The Florida Beverage

The Care and Feeding of the Wave Antenna

A Non-Resonant Longwire remote from earth ground

Loop Antenna Design and Theory - Order Item **LAM**
Revised and updated in 1996.

This manual is a compilation of numerous articles on the subject of design and theory of the loop antenna that have appeared through the years in *DX News*. This book gives detailed information on the theory of operation, construction and maintenance of a loop antenna. Serves as an enhancement to Antenna Reference Manuals Volume 1 and 2. 8 1/2" X 11" bound book format.

LAM Contents:

Multi-Rod Ferrite Loop Antennas

Roll Your Own! (Loop)

Loop Antenna Theory and Practice

Long Wave Converter Detail

Loop Distortion- Why get Skewed?

Pattern Controlled Loops

High Dynamic Range Balun Loop

BFE-C Loop Amplifier Card

The Hot Rod- Ferrite Loop Antenna

Loop Antenna Sensitivity

High Precision Direction finding of MW Skywave Signals

High Performance General Purpose Loop Amp

What's Wrong With Present Day Loop Antennas?

Antenna Reference Manual Volume 1 - Order Item **ARM1**
Revised and updated for 1996.

This manual is a compilation of numerous articles on the subject of antennas for medium-wave DX'ers. Originally published between 1969 and 1974 in *DX News*. Includes articles on air-core and ferrite core loops, antenna tuners for longwire and beverage antennas and antenna couplers. This is the original book which has been available for several years. 8 1/2" X 11" bound book format.

ARM1 Contents:

NRC FET Altazimuth Loop

Balanced FET Amplifier

Thoughts on FET Loop Construction

NRC Two Foot Loop

Tips on Loop Construction

One Transistor Loop amplifier

Balanced and Unbalanced Loops

Direct Coupled Loops

A 'Collapsible' Loop for Travel

BCB DX'ers Beverage

Antenna Tuning Devices for Longwires on MW

'Bob Flick' Loop

Degenerative Loop - An Excellent Antenna Coupler

The Hawk Loop

Alternative Methods of Air Core Loop Amplification

Antenna Reference Manual Volume 2 - Order Item **ARM2**
Revised and updated in 1996.

This manual is a compilation of numerous articles on the subject of antennas for Medium Wave DX'ers. Originally published between 1974 and 1981 in *DX News*. Some articles were formerly available as reprints. Includes articles on air-core and ferrite core loops, antenna tuners for longwire and beverage antennas and phasing units for use with beverages and longwires. 8 1/2" X 11" bound book format.

ARM2 Contents:

A Good loop is easy (and Cheap) to make

The "Harley Loop"

Whip antenna Coupler for portable Receivers

The Wedge Loop

AC power supply for FET loop amplifiers

Antenna Phasing

FET loop amplifier w/coaxial output

Practical Phased Beverages

Phasing Unit Construction and Use

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More Thoughts on Beverages

Floor Stand and Mounting arrangements for Loops

NRC County Cross Reference - Order Item **CCR**

Compiled by Bill Hale. This handy reference has a complete lists of counties in the USA and Canada. These are listed alphabetically and cross referenced by State. A great way to ID those unID'ed stations that mention a county name! Also a complete list of counties listed by state and/or province. A perfect reference for amateurs too.

The Challenging Crystal Set - Ray Cole - Order Item **CCS**

This interesting booklet shows you how to build a "modern" crystal set, just like the one your parents or grandparents might have built and used many years ago. The 40-page booklet is full of illustrations and excellent diagrams.

The DX'pedition Handbook - Shawn Axelrod; with features by Mark Connelly WA1ION - Order Item **DPH**

A complete guide to planning and participating in a DX'pedition. Includes the results of the 1991 and 1993 Newfoundland DX'peditions. Recommended for those interested in exotic DX and using beverage and mini-beverage antennas

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ANTENNAS

Many articles formerly in this section are now in the Loop and Beverage Manuals.

- A2 A ZERO SHARPENING DEVICE FOR A BCB LOOP.** T. Holmes. If you're having trouble obtaining sharp nulls with a standard loop, this simple device may help. (1)
- A3 A VERSATILE LONGWIRE ANTENNA COUPLER.** R. Foxworth. How to get the maximum amount of signal from your longwire. (3)
- A9 DOWN TO EARTH GROUNDS.** G.P. Nelson. How to make low resistance ground connections for terminating a Beverage (2)
- A10 A CALIFORNIA BEVERAGE.** Fr. Jack Pejza. Results obtained at this Beverage site. (2)
- A12 THE VERTICAL PICKUP PATTERN OF THE MW LOOP ANTENNA.** G.P. Nelson. Information for those doing horizon blockage experiments with a loop antenna. (4)
- A13 USING TWO ANTENNAS TO GENERATE ASYMMETRICAL RECEIVING PATTERN.** M. Levintow. Shows a simple way to skew your loop's pattern to effect a null that will permit reception of a station impossible to receive on a figure 8 loop antenna by itself. Reprints A5 and A6 are a requirement for understanding this technique. (3)
- A14A NEW MEDICAL BREAKTHROUGH FOR LONGWAVE TA'S.** C. Clayton. Instructions on how to build an inexpensive loop antenna for LW. (1)
- A15 REVIEW OF THE DYMEK DA-3 ANTENNA.** Pete Taylor, with notes by R. J. Edmunds. Evaluation of this MW antenna. (4)
- A16 MORE ON BEVERAGE ANTENNAS.** Wes Boyd. Beverage antenna theory and application. (2)
- A17 MORE FERRITE LOOP ANTENNA INFO.** Dallas Lankford. Inconsistencies in ferrite-core loop antenna theory. (3)
- A19 NEBE: THE NEBRASKA BEVERAGE.** D. Fischer, C. Dabelstein, R. Mitchell. Results at the Nebraska Beverage site. (7)
- A20 THE LSCA-1.** Ron Schatz. Construction plans for the Loop Sense Cardioid Array. Should yield a unidirectional receiving pattern when operated properly. (10)
- A25 A NOVEL APPROACH TO BUILDING YOUR OWN BCB LOOP.** M. Maloney. Ideas for improvements in operation and sturdiness of loop antennas. (4)
- A27 SEVEN PASSIVE TUNERS.** Mark Connelly. This article will introduce you to many different tuner designs and how they are used (10)
- A29 REMOTELY - CONTROLLED ANTENNA TUNER RT-1.** Mark Connelly. An introduction to the design of remote tuning for loop or wire antennas from distances of 50 feet or more. Use w/ A43 (7)
- A30 REMOTELY TUNED DIRECTIONAL LOOP ANTENNA.** E.L. Cummins. Loop ideas for building where interior-mounted loops will not work. (11)
- A31 SIMPLE CHEAP AND EFFECTIVE PRESELECTION LONGWIRE TUNER-AM-**

PLIFIER. B. Sherwood. Schematic and brief instructions are given. (3)

- A33 ANTENNAS FOR AM BROADCASTING.** Steve Kennedy. A brief history of early and current station antenna systems. (4)
- A34 SOME ANTENNA EXPERIMENTS - PART 1.** W. R. McIntosh. Ever heard of a -Helical longwire? This article deals with compact antennas for use where space is limited. (3)
- A35 THE PHASE ONE - A Delay Line Phasing Unit.** Gerry Thomas. Description of an improved phasing unit design that can be built or is available in kit form. (3)
- A36 LOOP-LONGWIRE COMBINED ANTENNA.** P. Swain. "Sensing" antennas for DX'ing and direction finding. (3)
- A38 EXTREMELY LINEAR ELECTRICALLY TUNABLE ACTIVE RECEIVING ANTENNA.** Hopf and Lindenmeier. Technical discussion of an antenna system that is the optimum solution towards allowing undisturbed reception near transmitters. (5)
- A39 SIMPLE PASSIVE LONGWIRE TUNER.** Mark Connelly. A basic tuner that can eliminate mixing spurs caused by strong locals. (2)
- A40 AMPLIFIED PHASED SHORTWIRES.** Mark Connelly. Construction article. Utilizing an SM-2, phasing unit and short wire antenna. (8)
- A41 THE KOWALSKI LOOP.** Neal Perdue with comments from Paul Kowalski. A first-hand account of this ferrite core loop antenna. A non-technical review, with comparisons to the SM-2. (2)
- A42 THE MWT-1 FAMILY OF ANTENNA TUNERS.** Mark Connelly. Construction plans for the MWT-1, Mini MWT-1A, 1B and 1C antenna tuners (28)
- A43 RT-1 REMOTELY-TUNED ANTENNA TUNER.** Mark Connelly. Description and construction plans. (10)
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- A45 THE MWDX-4 FAMILY OF PHASING UNITS.** Mark Connelly. Construction and use of two similar series of phasing units. (25)
- A46 WIND A COMPLETE-COVERAGE COIL FOR THE RADIO WEST LOOP.** Fritz Mellberg. Eliminate the need to change coils during tuning of the entire MW band on this antenna. (1)
- A47 TEST OF THE MITCHELL LEE LOOP AMPLIFIER.** Mark Connelly. A new low impedance input, 3-transistor amplifier used with series tuned loops is detailed, along with improvement ideas. (6)
- A48 YAD ANTENNA GIZMO** Jerry Starr. A simple-to-build antenna switching device. Will ground the antenna not in use while using the other; designed for 2 antennas and 1 receiver. (1)
- A52 COMPUTER-AIDED ANTENNA TUNER DESIGN.** Mark Connelly. This BASIC computer program determines which component values are used in your antenna tuner. Tuner schematics included. (7)
- A53 IMPORTANT LOOP, TUNER AND PHASER DESIGN CONSIDERATIONS ("Q" DEMYSTIFIED)** Mark Connelly. Technical article. The importance of "Q" and a BASIC program to find antenna tuner component values in light of the "Q" (7)

- A54 THE MITCHELL LEE AMPLIFIER: TWO TUNER IMPLEMENTATIONS.** Mark Connelly. Technical article. Tuner circuits using this amplifier. Reference also A47. (5)
- A55 HOTRODDING THE MINI-MWDX-3 PHASING UNIT.** Mark Connelly. Technical article. More on the Mini-MWDX-3. Requires reprint A44. (3)
- A57 MICRO-MWDX-4A LOOP VS WIRE PHASER.** Mark Connelly. Connelly. Technical Construction Article. (11)
- A59 LIL-1.** Dallas Lankford. Construction plans for a new circuit for combining a loop and inverted L antenna to generate a cardioid pattern. (3)
- A60 MEDIUM WAVE, A PRACTICAL APPROACH.** Graham Maynard. This is a consolidation of articles that were first published by the Medium Wave Circle of England. It outlines the authors construction of his MW DX receiving set-up. (12)
- A61 MWDX-5 PHASING UNIT.** Mark Connelly. The latest series of Phasing Units. Construction article. (11)
- A62 MINI-MWDX-5. A SIMPLE PHASING UNIT.** Mark Connelly. Construction article. Similar to the MWDX-5 but simpler. A61 recommended (3)
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- A73 THE MWT-2 REGENERATIVE TUNER.** Mark Connelly (21)
- A75 BEVMATCHER.** A broadband antenna matching and combining Unit. Mark Connelly. (8)
- A77 The RTU-1.** Mark Connelly. A remote tuning unit for active antennas. (11)
- A78 Coupler and Upgrades for the Quantum Loop.** G. Thomas (2)
- A79 SUPER MWDX-5 PHASING UNIT.** M. Connelly. Upgrade of Reprint A61 (16)
- A80 ANOTHER LOOK AT NOISE REDUCING ANTENNAS** by Mark Connelly (3)
- A81 ONE CHIP ACTIVE ANTENNAS** by Mark Connelly (3)
- A83 THE RTL-2 REMOTELY TUNED LOOP** by Mark Connelly (24)
- A84 THE DCP-1 DUAL CONTROLLED PHASER FOR REMOTELY TUNED ACTIVE ANTENNAS** by Mark Connelly (12)
- A85 DL-1 DELAY-LINE PHASE UNIT** by Mark Connelly (9)
- A86 THE MWT-3 REGENERATIVE TUNER CONTROLLER** by Mark Connelly A passive and Active broadband amplification control of remotely tuned loops and whips. (21)
- A87 ULTRALINEAR 2N5109 AND 2N3053 AMPLIFIERS.** D. Lankford. Technical article with instructions/schematics. (15)

- A88 ULTRALINEAR AMPLIFIED ONE METER WHIP ANTENNAS.** Dallas Lankford. 1994 - complete instructions and diagrams for 2 one meter antennas. (19)
- A89 THE FULL-SIZE, FULL-PERFORMANCE LOOP.** R. Moore. A history and explanation of Loops and the author's current design. (10)
- A90 ANTENNA EXPERIMENTS - summer 1994.** Mark Connelly. Tests to help you choose for your needs. (5)
- A91 KIWA/QUANTUM LOOP COMPARISON** by Elliot Straus. (1)
- A92 PHASED NOISE REDUCING ANTENNAS** by Russell Scotka (7)
- A93 THE QUANTUM (OR Q-STICK). A PASSIVE ANTENNA BOOSTER PLUS ADVANCED Q-STICK DXING TECHNIQUES** by Jerry Thomas. (8)
- A94 THE MWDX-6 PHASING UNIT** by Mark Connelly (24)
- A95 DL-2 DELAY LINE PHASING UNIT** by Mark Connelly (10)
- A96 TWO REMOTE ACTIVE ANTENNAS - RL-1 REMOTELY TUNED LOOP AND RW1 REMOTELY TUNED WHIP** by Mark Connelly (15)
- A97 INVESTIGATION OF REGENERATIVE TUNER DESIGN THE MWT-3S** by Bruce Conti -edited by Mark Connelly (6)
- A98 TEST REPORT - THE JPS ANC-4 ANTENNA NOISE CANCELLER** by Mark Connelly (3)
- A99 LOOP SHOWDOWN KIWA VS RSM-105** by Mark Connelly (4)

DOMESTIC DX

- D2 IT TAKES TWO TO VERIFY, PLUS HELPFUL HINTS.** J. Murley and R. Schiller, respectively. Article on the station's attitude toward reception reports and veteran DX'er Schiller's tips on increasing your returns. (4)
- D3 THE DX TEST FROM A STATION'S VIEWPOINT.** Bill Croghan. Hints from a broadcaster arranging DX tests and obtaining more verifications. (1)
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- D11 GRAVEYARD DX,** R. Foxworth, with additions by M. Levintow. DX'ing the local channels with results. (15)
- D12 CANADIAN FAMILY LIFE...IT'S TWINS.** J. Oldfield. Explains station "families" in Canada. List of station groupings as of 1980 (3)
- D13 THE POST-SUNSET AUTHORITY, A DAYTIMER'S DILEMMA** Jerry Starr. A discussion on "PSSA's". (4)
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- ADC4 - After Dark 4 **\$9.50**
- ADC5 - After Dark 5 **\$19.95**
- ADC6 - After Dark 6 **\$9.50**
- LAB - 100 Custom Labels for **\$2.50**
 4 or 5 lines 35 Characters/ Spaces; please supply copy
- DX Audio Service - Sample Tape **\$3.00**
- Sample Copy *DX News* Magazine \$ **0.32**
- Back Issues of DX Audio Service- ea **\$3.00**
- Desired Issues: _____
- STA - NRC Emblem Stationary -100 sheets for **\$5.00**
- EERF - English Reception Report Forms - 50 for **\$5.00**
- SSRF - Sample Form for Spanish Receptions - **\$0.25 each**
- FFRF - Sample Form for French Receptions -**\$0.25 each**
- CERT - *NRC Membership Certificate* - **\$1.00**
- ZAL - *Archived Publications List* - **\$0.32**

Sub-total for this page _____

For Overseas Airmail Rates: To the Caribbean/Latin America Add US\$ 1.00 to all items under \$5.00. Add 20% to all items over \$5.00. To Europe Add US\$ 1.50 to all items under \$5.00. Add 30% to all items over \$5.00. All other areas Add US\$ 2.00 to all items under \$5.00. Add 40% to all items over \$5.00.

DXNCAT97

- D17 THE WORLD'S HIGHEST-POWERED STATIONS.** Mike Burden. From Radio Luxembourg's 1933 150kW transmitter to the mega-watters of today, includes WLW, Doc Brinkley, and more. (3)
- D18 QSL'ING THE LOCALS.** Skip Arey. Extracting veries from your local stations. (1)
- D19 HOW TO "UP" YOUR TOTALS!** John J. Rieger. An antidote to "DX burnout" and proof that there is DX after the first 1000 catches! (3)
- D20 WHO'S ON FIRST?** Bruce Conti. Who was the first broadcasting station in history...? (4)
- D21 WHAT MAKES FOR A DX TEST?** Wayne Heinen. A look at what happens at a radio station during a DX test (1)
- D22 FORMAT FUTURES.** Chris Cuomo. What radio formats may look like in the 1990s. (2)
- D23 SATELLITE PROGRAMMING.** Ed Ryan. A look at how it works. (2)
- D25 A SEVENTEEN-POINT PLAN FOR AN IMPROVEMENT.** Doug Smith. A fix to the AM broadcasting service as we know it? (3)
- D26 ONCE UPON A TIME.** Ben Dangerfield. What hap-pened 30 years ago in DX, the NRC, and the world! 1963 was an amazing year. (3)
- D27 THE STEVENSON LOG.** Gene Martin. The Broadcast Band in February 1926. (1)
- D28 SUNSET DX'ING FROM THE WEST COAST.** Guy Kudlemyer. Becoming a pro at catching stations at sunset.(6)
- D29 DX'ing Tips Using Satellite Services.** D. Schmidt (2)
- D30 TRAVELERS INFORMATION STATIONS.** Rules and Regulations governing these numerous low-power broadcasters. (2)
- D31 THE 1996 EXPANDED BAND (1610-1700)** A-location list with location maps. (2)
- D32 U. S. A. DIGITAL RADIO (IN-BAND, ON-CHANNEL).** Official descriptions. (6)
- D33 BAD WEATHER! USE IT TO YOUR ADVANTAGE.** by Dave Schmidt. (2)
- D34 PIRACY ON THE MEDIUM OR HIGH FREQUEN-SEAS (AND NOT WALK THE PLANK)** by John D. Bowker. (5)

FOREIGN DX

- F1 DX'ING CENTRAL, SOUTH AMERICA AND THE CARIBBEAN.** Mark Connelly. Listings, by frequency, of the best bets from these areas, along with the original Connelly, DeLorenzo, Kazaross article DX'ing Latin America and the Caribbean. (9)
- F2 TA TIPS FOR BEGINNERS.** Dave Yocis. Your first Trans-Atlantic receptions ! (2)
- F3 PORTUGUESE FOR DX'ERS.** R.Schatz. Describes the important features of this language. (2)
- F4 TA DX'ERS GUIDE TO SUNRISE-SUNSET TIMES.** Mark Connelly. Reference to SRS-SSS times with extensive tables for many locations. (4)
- F5 HUNTING LATINs BY MUSIC.** R. Schatz. Describes types of LA music from various countries and how to ID stations using this information.(5)
- F6 ZONAL-ANALYSIS APPROACH TO TA DX.** Mark Connelly. A systematic method of grouping TA countries to help the DX'er recognize different types of openings and improve TA reception. (4)
- F7 ZONAL-ANALYSIS APPROACH TO PAN-AMERICAN DX.** Mark Connelly. Similar to F6, with the emphasis on the Eastern U.S. loggings of LA and South American stations. (5)

- F8 STATION IDENTIFICATION.** Tips on how to ID stations in nearly 50 languages! (2)
- F9 SOME EASY TA'S.** Dallas Lankford. (2)
- F10 ID'ING JAPANESE BROADCAST STATIONS.** Charles Taylor. Hints to help, without actually knowing the language! (2)
- F12 COMMON SENSE TA DX STRATEGY.** Mark Connelly. Practical hints are given for hearing Trans-Atlantic stations. (2)
- F13 THE ODDS ON EVEN TA'S.** Mark Connelly. The possibility of hearing TA's on channels shared with domestic stations. (10)
- F14 YOUR FIRST 30 COUNTRIES IN ENGLISH.** Mark Connelly. Listed by country. (3)
- F15 CARIBBEAN MW DX GUIDE.** Mark Connelly. Listed by Country. (4)

HOBBY REFERENCE LISTS

Some reprints formerly in this section are found in the *Station Location Mapbook (SLM)*

- HRL1** National Radio Club Common Abbreviations List (6)
- HRL2** Cuban Medium-Wave Broadcast Stations This list recently revised! (4)
- HRL3** U.S. Postal Service 3 digit ZIP codes (2)
- HRL4** North American Time Zones to UTC Conversion Chart. (1)
- HRL5** Frequency and Power Relationship Chart. Shows average coverage radius for various powers at BCB frequencies. (1)
- HRL8** NRC Countries List edited by Al Merriman (2)

MISCELLANEOUS ARTICLES

- M1 LOCAL SIDEBAND SPLASH: HOW MUCH IS TOO MUCH?** G. P. Nelson. This article describes FCC regulations on sideband radiation on the medium wave band and types of station-originated spurious radiation. (1)
- M2 MODULATION ARCING** J. Starr. Describes a frequent but rarely-discussed cause of medium-wave interference originating at the station. (1)
- M3 SUNRISE-SUNSET TABLES.** G.P. Nelson. These charts allow determination of accurate time of sunset and sunrise at any point in the world on any date. (9)
- M4 REINTERFERENCE AND THE HOME COMPUTER.** Bill Krause, ANARC. Home computers will cause interference on your DX rig unless precaution are taken; solutions are discussed. (2)
- M5 UNRESTRICTED RADIATION.** G.P. Nelson. Discussion of carrier current stations and how to hear them. (3)
- M6 RF POLLUTION.** G. Hauser. General discussion of the radio interference problem and steps necessary to control it. (2)
- M7 PATTERNS, PARTS I, IIA, IIB.** P. Hart. These articles explain in detail what patterns mean and understanding their relationship to DX'ing! (34)
- M9 MORE ON HOW DIRECTIONAL ANTENNA PATTERNS ARE PRODUCED.** Wes Boyd. Supplementary information to the articles in the 1980 edition of the *NRC Night Pattern Book*. (1)
- M10 SUPERMODULATION AND EFFECTS ON DX'ING.** Steve Kennedy. Discussion on the problem and its affect on DX'ing. (3)

- M11 TERRAIN CHARTS FOR PROPAGATION PREDICATIONS.** M. Connelly. This article details how to prepare a chart of a DX'ers surrounding terrain which can help enhance or diminish reception. (3)
- M12 NOISE LEVELS AND USABLE RECEIVER SENSITIVITY.** C. Hutton. Technical Discussion of the effect of noise on receiver sensitivity. (5)
- M13 GREAT CIRCLE CALCULATIONS REVISITED.** Mike Tuggle, with an addendum by R.N. Allen. An explanation, how to figure distance and direction of stations mathematically, with a computer program to figure the Great Circle paths. (4)
- M17 SOME THOUGHTS ON INTERFERENCE.** Skip Arey. A simple modification to eliminate noise from light dimmers. (1)
- M18 MANMADE INTERFERENCE ON THE BCB.** Dallas Lankford. A systematic approach for evaluating a current or future DX'ing location in terms of man-made noise levels. (3)
- M20 THE LOG BOOK.** John J. Rieger. Organizing your log book. (3)
- M23 WBBM RADIO: YESTERDAY AND TODAY.** Chuck Schaden. A book review (1)
- M25 MUSIC IN THE AIR,** by Philip K. Eberly. Reviewed by Armand DiFilippo. (1)
- M30 THE GOLDEN AGE OF DX'ING.** John Clements. Were the years 1969 thru 1975 the Golden Age of DX'ing? You decide. (4)
- M31 ALL ABOUT WAVELENGTH.** John D. Bowker. Wavelength versus frequency. An explanation. (2)
- M32 STANDARDS TIME AND FREQUENCY.** via Pete Kemp. Time and frequency stations located on longwave. List by frequency. (3)
- M33 AM RADIO IN HIGH FIDELITY.** John D. Bowker. Find out the reason why AM sounds so bad and what can be done to fix it. (1)
- M34 MYSTIQUE OF THE THREE-LETTER CALL.** Thomas White, via CompuServe, via Pete Kemp. The Historic Roll Call and Current Status. (12)
- M37 NOISE** Some Causes and Some Cures. Wayne Heinen (4)
- M39 FOUR SOFTWARE PIECES FOR MW DX'ers** G. Kudlemyer. Review of programs for Macintosh Computer Owners. (6)
- M40 PIONEER BROADCASTING STATIONS IN THE US.** Thomas White A comprehensive history of US Radio including the oldest 127 stations still in operation with starting dates. (12)
- M41 RFI FROM HOUSEHOLD ELECTRONICS** by Perry Crabill Jr (2)
- M42 AN INTRODUCTION TO LONGWAVE DX'ING** by Shawn Axelrod (3)

PROPAGATION

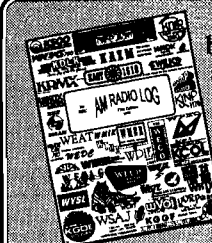
- P1 MEDIUM WAVE SIGNAL PATHS, PARTS I, II, III, AND IV.** G. P. Nelson. Discusses Great Circle paths, seasonal absorption patterns, auroral effects and the Mid-Winter Anomaly. (29)
- P2 SOLAR CONTROL OF DAWN E-BLANKETING ON THE MW BCB.** G. P. Nelson. Explains how the position of the sun controls the fadeout time of TA's and TP's. (3)
- P3 EAST-WEST SYMMETRY AND THE FADE-IN PROBLEM.** G. P. Nelson. Explains how the sun controls the fade-in times for MW stations. (2)
- P4 SUMMER RECEPTION ON THE BROADCAST BAND.** G. P. Nelson. First article describ-

- ing the seasonal patterns in solar terminator location which makes summer MW reception from deep South America and Africa possible. (3)
- P5 METEOROLOGICAL EFFECTS ON MW GROUNDWAVE RECEPTION.** R. J. Edmunds. Short term variations in groundwave propagation at MW frequencies and their relationship to weather conditions. (7)
- P6 AURORAL EFFECTS AND THE 1969 TRANS-ATLANTIC LISTENING TEST.** G. P. Nelson. A description of how the geomagnetic and auroral phenomena control TA reception from various stations. An introduction to auroral effects. (5)
- P7 THE AURORA OF NOVEMBER 6-9, 1970.** G. P. Nelson. Traces a classic auroral attack from its origin on the sun to its effect on MW reception. (3)
- P8 COMPARATIVE MEASUREMENTS OF GEOMAGNETIC INDICES.** R. J. Edmunds. A three-month comparison of A-index measurements as reported by several major observatories as they relate to each other. (3)
- P9 SKYWAVE OR GROUNDWAVE RECEPTION?** G. P. Nelson. How to tell whether the signal from a station is arriving via ground wave, skywave, or both. (3)
- P10 A BEGINNER'S GUIDE TO THE IONOSPHERE.** Fr. Jack Pejza. This article explains the processes which change the ionosphere and the effects of these changes on radio wave propagation. (10)
- P11 THE LIMITS OF MIDDAY MW DX.** G. P. Nelson. Comprehensive article describing the factors which influence radio wave propagation and reception during the late morning and early afternoon hours. (16)
- P12 LIMITATION ON THE USE OF THE A-INDEX.** G. P. Nelson. An explanation of the A-index as a DX'ers tool. (3)
- P13 BCB RECEPTION DURING PERIODS OF HIGH AURORAL ACTIVITY.** G. P. Nelson. Describes research into the effects of the aurora on MW propagation. (8)
- P14 SKYLINE BLOCKAGE** Fr. Jack Pejza. Mathematical derivation of the formulas needed to calculate the effect which terrain has on signals. (10)
- P15 SKYLINE BLOCKAGE, SOURCES OF UNCERTAINTY.** G. P. Nelson. Takes into account the possibility of signal propagation by some less common modes which are subject to blocking by the horizon. (9)
- P16 HORIZON BLOCKAGE: CAN FRESNEL DIFFRACTION BE IGNORED?** G. P. Nelson. This article shows how signals that should be blocked by the horizon can sometimes be heard. (10)
- P17 TRANSPOLAR DX RECEPTION.** R. J. Edmunds. This technical article relates to the transpolar reception of central and eastern Asiatic stations at sunset in North America. (27)
- P18 OBSERVATIONS OF TRANS-ATLANTIC MW RADIO SIGNALS.** C. W. Bailey. The results of a lengthy survey of TA receptions made over a one-year period. (3)
- P19 PROPAGATION AT MW FREQUENCIES.** P. Sullivan. Discusses some aspects of the factors which control signal reception on the BCB. (6)
- P20 FACTORS OF MW PROPAGATION.** F. Dinning. Discussion of the nature of MW propagation. (6)

- P21 DOMESTIC PROPAGATION-ANSWERS TO FREQUENTLY ASKED QUESTIONS.** R. J. Edmunds. A discussion on some of the propagational factors that affect domestic reception. (1)
- P22 REVIEW OF SOLAR ACTIVITY FOR THE MW DX'ER.** R. J. Edmunds. An explanation of the Fredericksburg A-index as well as its use in the hobby. (2)
- P23 MEDIUM WAVE IONOSPHERIC PROPAGATION PLUS THE SEQUEL TO R.Schatz.** These articles take a different approach to propagation and presents new terms and theory. (11)
- P24 TERMINATOR TRANSIT MECHANIX.** R.Schatz. Parts I, II, III, IV AND IV-A of a series which the author states features practical techniques to hear new stations; techniques never before available. (33)
- P25 SUNSPOT CYCLE 21 - THE PEAK - HOW MUCH AND WHEN.** O. Oklehen, H. R. REPORT. This article, through careful predictions, shows how the next peak in solar activity will be one of the most severe in recent history: Includes additional comments by R. J. Edmunds. (3)
- P26 ATMOSPHERIC AND GALACTIC NOISE ON THE BCB.** Dallas Lankford. A discussion on the amounts of various types of noise. Compared to receiver sensitivity (3)
- P27 ON THE NATURE OF SCIENCE AND THEORIES OF BCB PROPAGATION.** Dallas Lankford. Discussion of several theories, concentrating on the controversy concerning the degree of the arrival angle of signals propagated over long distances. (3)
- P28 DXING THE 1984 SOLAR ECLIPSE.** Gerry Thomas. One DX'er's experiences during this rare DXing opportunity. (3)
- P29 ON OBLIQUE PROPAGATION.** Dallas Lankford. Very technical discussion on the theory of oblique incidence nighttime ionosphere at BCB frequencies. (12)
- P30 MEDIUM-WAVE OBLIQUE PROPAGATION - ANOTHER VIEW.** Randall J. Seaver. Some different interpretations are presented on this subject, as well as examples of MW propagation analysis using the Knight Wave-Hop method. (9)
- P32 RELATIONSHIPS BETWEEN SOLAR ACTIVITY, THE EARTH'S MAGNETIC FIELD, AND MW DXING.** Randy Seaver. General characteristics of geophysical phenomena are addressed, in order to understand relationships between the sun, the geomagnetic field, and high-latitude DX. (15)
- P33 SEA GAIN.** Randy Seaver. A discussion of the propagation phenomena. (11)
- P36 M.F. PROPAGATION: A WAVE-HOP METHOD FOR IONOSPHERIC FIELD STRENGTH PREDICTION.** P. Knight. A method for calculating the strength of medium-wave frequency sky-wave signals at night. (9)
- P37 BEAMAC-A -DELUXE+ GREAT CIRCLE BEARING DISTANCE COMPUTER PROGRAM.** Mark Connelly. A "basic" computer program. (6)
- P38 THE EFFECTS OF WEATHER ON THE IONOSPHERE.** Jack Woods. A discussion on weather and MW propagation. (2)
- P39 GROUND WAVE, SKY WAVE.** John D. Bowker. A simple explanation of these term. (1)
- P40 TRACKING THE 1994 SOLAR ECLIPSE BY RADIO** by Ken Chatterton (3)
- RECEIVING EQUIPMENT AND TECHNIQUES**
Some articles previously in this section are available in The Challenging Crystal Set.
- R1 SPURIOUS SIGNALS and SPURIOUS SIGNALS REVISITED.** R. J. Edmunds and G. P. Nelson. Many DX'ers hear stations on frequencies where they don't belong. Article describes causes and cures of spurious MW signals. (10)
- R2 SINGLE SIDEBAND RECEPTION ON THE BCB WITH MECHANICAL FILTERS.** G. P. Nelson. Few commercial receivers covering the MW band have adequate selectivity to cope with MW interference—particularly in the presence of powerful local stations. Explains how to add mechanical filters to an existing receiver for the ultimate in adjacent channel rejection. (21)
- R3 SUBAUDIBLE HETERODYNES ON THE MW BCB.** G. P. Nelson. Details on a technique to permit the MW DX'er to detect and characterize signals too weak to hear at the time; allows the DX'er to count the number of stations on a channel—even if no programming is audible and permits direction-finding on channels with several stations present. (6)
- R5 THE TRACKING PROBLEM AND HOW TO CURE IT.** G. P. Nelson and T. Holmes. Many excellent receivers are poorly designed for MW DX operation. This article describes one of the most common design faults and how to cure it. (4)
- R6 ELECTRONIC VERNIER TUNING.** R. Moore. Detailed instructions on how to fit a varactor to a MW receiver to provide fine bandspread. (4)
- R9 RECEIVER/ ACCESSORY INTERFACES MADE SIMPLE AND CHEAP.** R.J. Edmunds. A discussion of methods of interconnecting DX equipment. (7)
- R10 UP THE CARRIER.** W. Bailey. Dig the weak DX out of the mud with this form of exalted carrier reception. (1)
- R11 PRECISION FREQUENCY MEASUREMENT.** R. Schatz. How to use the frequency counter. (3)
- R13 SINGLE SIDEBAND RECEIVING ADAPTERS.** T. Sundstrom. How to sharpen your receiver's IF bandpass using a BandW 370 receiving adapter. (2)
- R14 REVIEW OF THE AUTEK Q-BOX.** T. Sundstrom. Describes the uses of this noise filtering device and its applications in MWDX. (3)
- R17 BUILD YOUR OWN AUDIO FILTERS.** P. Sullivan. A technical theory and construction article on inexpensive homebrew audio filters. (7)
- R19 A BRIEF REVIEW OF THE AUTEK QF-1 AUDIO FILTER.** C. Hutton. A non-technical review of this noise and interference filter. (2)
- R20 A FREQUENCY COUNTER FOR RECEIVER TUNING.** R. Foxworth. A very thorough paper on digital readouts and what to look for in various models. Discusses technical theory and provides circuitry to enable the experimenter to build a counter for use as a "digital dial". (13)
- R22 THE LYNODYNE CRYSTAL WIRELESS RECEIVER.** R.W. Tuggle. The concepts of vintage crystal radio are incorporated in these construction plans for a simple receiver, offered as a sporting alternative to modern receivers; yet it has the potential for real DX. (4)
- R23 DIVERSITY RECEPTION.** C. Hutton. Using more than one antenna and receiver in an effort to

- reduce fading and interference on one frequency. (1)
- R24 TIPS ON REMOTE TAPING.** R. J. Edmunds. This article explains several methods you can use to turn your receiver and recorder on while you are otherwise occupied. (2)
- R25 STRONG SIGNAL HANDLING.** C. Hutton. This technical article explains that sensitivity and selectivity are not the only, nor the most important, considerations in a receiver. (6)
- R26 RECORDING JACKS FOR RECEIVERS.** Dave Arbogast. A simple step-by-step procedure is outlined for adding a tape jack to almost any receiver. (1)
- R27 TAPE RECORDING HINTS.** Mark Connelly. A complete method of radio-to-tape interfacing for portable radios is detailed, complete with schematics and parts lists for construction. (4)
- R28 CONVERTING THE R-390A POWER SUPPLY TO SOLID STATE.** Charles Taylor. A conversion process to change the older high voltage tubes to solid state diodes is described step-by-step. (7)
- R29 R-390A ALIGNMENT CHART.** Charles Taylor. A step-by-step procedure for aligning the R-390A. (5)
- R30 MCKAY-DYMEK DP-40 PRESELECTOR.** R. Foxworth. A non-technical description of this useful filter accessory plus some modifications to improve its performance. (2)
- R31 THE SUPER HQ-180.** Dallas Lankford. Add a Collins mechanical filter to your "180". While not a "how-to" article, problems and results are discussed. (4)
- R32 HQ-180A ALIGNMENT WITHOUT A 60 KHZ SOURCE.** Dallas Lankford. Although most RF signal generators do not tune below 100 KHz., the HQ-180A's 60 KHz IF can be aligned with a 455 KHz RF source. (4)
- R33 R-390A/URR PTO ALIGNMENT.** Dallas Lankford. The alignment procedure to achieve exact end-point alignment in the R-390A PTO tuning is detailed. See R34, (3)
- R34 INSIDE THE R390A PTO.** Dallas Lankford. An in-depth article that explores the PTO tuning in the R-390A and shows how to improve its performance up to specifications. See R33. (4)
- R35 THE R-390A ON LONGWAVE.** Craig Healy. A simple and inexpensive method to modify the R-390A effective amplifier for loops to tune below 500 KHz. (2)
- R36 THE BBA-1 BROADCAST AMPLIFIER.** Mark Connelly. A simple and other antenna. Complete construction details. (11)
- R37 THE GENERIC HQ-180 IF ALIGNMENT.** William Marvin. A non-technical procedure that requires no test equipment. (4)
- R38 VARACTOR DIODE APPLICATIONS FOR DX'ERS.** Mark Connelly. Discussion of the Advantages and disadvantages of substituting the varactor diode for the variable capacitor in various DX projects. (10)
- R39 A "KNOCK-YOUR-SOCKS-OFF" REGENERATIVE PREAMP.** Ray Cole. A simple-to-build preamp that promises to nearly double your receiver's ability to dig weak signals out of the noise. (1)
- R41 THE DX TIME-MACHINE.** Craig Healy. Use your VHS VCR to record all or part of the AM Band for later listening! It may have started as an April Fool's joke, but with the modifications described, it really does work!! (3)
- R42 NOISE AND SIGNAL LEVELS ON THE BCB.** Marc Bergman. How much sensitivity does a receiver need? A practical view of signal level vs. BCB noise levels (15)
- R43 CERAMIC FILTERS.** Marc Bergman. A listing and description of the most commonly available ceramic filters, with data from tests. (9)
- R44 THE HQ-180 SERIES RECEIVERS SENSITIVITY TEST.** Dallas Lankford. A simple diagnostic test. (2)
- R46 SURPLUS MECHANICAL FILTERS.** Marc Bergman. Test results of several reasonably-priced and available mechanical filters. (3)
- R47 ADD A TUNING METER TO YOUR RECEIVER.** Ray Cole. Shows how to add a meter to your radio for accurate tuning. (1)
- R50 R71A SPEAKER MODIFICATION.** Herman Plew. Throw that sound in the right direction with this modification. No technical knowledge needed! (1)
- R51 SELECTIVITY VS. FIDELITY FOR THE DOMESTIC BCB DX'ER.** Neal A. Perdue. What is selectivity? What is fidelity? Why do you need both? (1)
- R52 YET ANOTHER USE FOR THE AUTEK RESEARCH QF-1A ACTIVE AUDIO FILTER.** Neal A. Perdue. Clean up your DX catch tapes, even old records with these techniques. (1)
- R53 THE RBL AND THE R-392/URR, A SYMBIOTIC RELATIONSHIP OR NEW USES FOR TEST POINT E203.** John H. Rose III. Technical article using these receivers in a series of experiments. (3)
- R54 COLLINS 51J4 REVIEW.** Dallas Lankford. A detailed review. (3)
- R55 COLLINS 51J4 TECHNICAL NOTES.** Dallas Lankford. A comprehensive technical review. (10)
- R56 MORE COLLINS 51J4 TECHNICAL NOTES.** Dallas Lankford. A continuation of Reprints R 54 and R 55 (4)
- R57 COLLINS R390A, THE WORLD'S BEST RECEIVER?** G.S. Mayard. This review gets into the details of another fine DX receiver. Technical. (6)
- R58 A SIMPLE HIGH-PASS AF FILTER.** Gerry Thomas. Hear those "in-the-mud" stations better on that speaker. (1)
- R59 R-5000 MODIFICATIONS.** Eric Roskos via Peter Kemp. (3)
- R60 COMMENTS ON G. MAYNARD'S SYNCHRONOUS DETECT.** Wayne Heinen. This reprint should be used in conjunction with reprint R-57. (1)
- R61 ADD A Q-MULTIPLIER and A SB-620 TO THE R390A.** Wayne Heinen. (1)
- R62 PHASING UNIT DESIGNS: SIMPLE TO COMPLEX.** Mark Connelly. (5)
- R63 HQ-180 AGC MOD.** Dallas Lankford. AGC overshoot on the HQ-180 can be cured. (1)
- R64 51J/R-388 BAND 1 MOD AND AGC MOD.** Dallas Lankford. Increases MW sensitivity. (1)
- R66 R390A AGC/BFO MODS.** Dallas Lankford. Technical article. (4)
- R67 R390A KHZ FILTERS FOR THE HQ-180.** Dallas Lankford. How to use Collins DB filters in your HQ-180 receiver. (2)

- R68 R-390A AUDIO OUTPUT IMPEDANCE MATCHING.** Dallas Lankford. Improve the audio quality of your R-390A. (2)
- R69 COLLINS R390A - THE ORIGINAL "WORLD'S BEST".** Graham Maynard. More tips and modifications. (7)
- R70 NRD-525 AGC Mod. and AGC Mod 2** Dallas Lankford (6)
- R71 DRAKE R-8 MW ATTENUATOR MOD.** Dallas Lankford. (1)
- R72 MODIFICATIONS FOR THE NRD-525.** John R. Tow (5)
- R73 HOTRODDING THE RADIO SHACK 12-625.** Ray Cole (1)
- R74 COLLINS TORSION MECHANICAL FILTER FOR THE R-390A.** D. Lankford (7)
- R75 DRAKE R-8 TYPE B SPURS ELIMINATION.** D. Lankford (3)
- R76 DRAKE R-8 INCREASED DYNAMIC RANGE.** D. Lankford (4)
- R77 MODIFICATIONS FOR THE SANGEANATS-803A.** G. Maynard (3)
- R78 IMPROVEMENTS TO REGENERATIVE RECEIVER DESIGN** by Mark Connelly (2)
- R79 R-390A WON'T TURN OFF AGAIN (?)** by Dallas Lankford (2)
- R80 NRD-525 FILTER MODS** by Dallas Lankford (7)
- R81 DRAKE R-8: ENCODER SHAFT STATIC ELIMINATION.** by Dallas Lankford (1)
- R82 DRAKE R-8: LOW HEADPHONE VOLUME and BROKEN FEET** by Dallas Lankford. Cures for same! (1)
- R83 RACAL RA6790GM NOISE BLANKER NOTES** by Dallas Lankford. (6)
- R84 DRAKE R8 MORE ON IMPROVING IMAGE REJECTION** by Dallas Lankford (5)
- R85 R-390A FILTER MOD #3** by Dallas Lankford (3)
- RECEIVER REVIEWS**
- RR1 RECEIVER COMPARISONS - WHAT DO THEY MEAN?** R. J. Edmunds. Certain problems arise when comparing product summaries and receiver reviews. The author explores these comparisons with an emphasis on MW DX. (2)
- RR2 QUALITATIVE REVIEW OF THE YAESU FRG-7 RECEIVER.** G. Hauser. A non-technical review (3)
- RR3 DRAKE R7-A REVISITED.** Craig Healy. Reviewed and compared to the R-390A. (2)
- RR5 BARLOW-WADLEY XCR-30.** M. Hardester. (2)
- RR8 McKAY-DYMEK DR-22** J. Clements. A non-technical pre-production review. (3)
- RR9 ICOM IC-R70 COMMUNICATIONS RECEIVER.** Vincent Pinto. An in-depth, technical review. (9)
- RR10 THE GE SUPERADIO-CASSETTE.** Michael Sapp. The GE Superadio with an integral tape recorder. (4)
- RR13 THE SONY SRF-A100.** Greg Monti and Albert S. Lobel. Two looks at this AM-stereo portable receiver. (5)
- RR14 THE ICOM IC-R71A RECEIVER** - From the Australian *DX Calling* magazine. User review with commentary. (7)
- RR15 UNIDEN CR-2021 VS. SONY ICF-6500W** Gerry Thomas. A Comparison. (3)
- RR16 NRD515 Review** by Bob Foxworth. (7)
- RR18 SURVEY OF HAMMARLUND RECEIVERS.** Dallas Lankford. A summary of the full line of Hammarlund receivers suitable for BCB DX; with comparisons, modifications and hints when purchasing one. (7)
- RR19 KENWOOD R-5000.** Don Moman Includes performance results against the ICOM R71 and SONY ICF-2010. (5)
- RR20 THE GE SUPERADIO-PLUS.** Dick Truax. User first impressions and opinions. (1)
- RR21 THE COLLINS 51J-4 GENERAL COVERAGE RECEIVER.** Fritz Mellberg. (2)
- RR22 DENON AM-FM TUNER, MODEL TU-800.** Doug Allen. A great radio for FM DX'ing! (2)
- RR23 ICOM IC-R70, A QUICK REVIEW,** John J. Rieger. Non-technical review. (2)
- RR25 REALISTIC 12-625** Ray Cole, Paul Swearingen, César Objfio. (4)
- RR28 REALISTIC DX-440 VS SONY ICF-2010.** Mark Connelly. An MW DX evaluation of these two popular portable receivers. (2)
- RR30 GE SUPERADIO III.** Gerry Thomas (2)
- RR31 THE NRD 525 -A TECHNICAL REVIEW.** D Lankford (7)
- RR32 NRD-525 FILTER LEAKAGE.** Continuation of RR31 D. Lankford (5)
- RR33 RECEIVER SHOWDOWN** Comparing ICOM R-9000, R-71A / JRC NRD-525D / Drake R-8 and Collins R-390A by Gerry Thomas (6)
- RR34 THE DENON TU-680 NAB "SUPER RADIO"** (2)
- RR35 RA 6790/GM: A REVIEW.** Dallas Lankford - 1993 (8)
- RR36 SONY SRF-42 AM STEREO WALKMAN REVIEW.** Frank Aden, Jr. (1)
- RR37 PANASONIC RQ-V60 REVIEW.** John Hanz. (1)
- RR38 RAMSEY AM-1 TRANSMITTER KIT - REVIEW.** Christopher Cuomo. (3)



The **NRC AM Radio Log, 17th Edition**, compiled from members' reports and from official sources so that it is the most accurate listing of AM stations on the market. Cross-referenced, 3-hole punched for standard binders. Only \$16.95 to U. S. and Canadian members; \$22.95 to U. S. and Canadian non-NRC members. Airmail to members: to Latin America, \$23.50; Europe, \$24.00; rest of the world: \$28.00. Order from: NRC Publications - Box 164 - Mannsville, NY 13661 (NY residents please add sales tax)

- 1270 KAJO OR Grants Pass - 10/24 1100-1105 - Atop with local ads and ID. (DK-CA)
- 1320 KWHN AR Fort Smith - 10/26 0953 - With Fort Smith and Sallisaw ads, POL ad for Nancy Brewer, call IDs. Legal ID at 0959. Slogan *News talk 1320, KWHN Fort Smith*. Past my LSR and 1-1/2 hours past Fort Smith's LSR! Dominant, over QRM! (JW-CO)
- KCTC CA Sacramento - 10/26 1029-1103 - NOS format. Weak, but on top of frequency at least an hour after LSS here. QRM from KFNZ and a unID Sser. (JS-AZ)
- 1360 KOHU OR Hermiston - 10/26 1050-1100 - C&W music and local items. Mixing with KUIK. (DK-CA)
- KUIK OR Hillsboro - 10/26 1050-1100 - With local items, including high school football scores. Mixing with KOHO. Californians all gone. (DK-CA)
- 1370 WKSH WI Sussex - 10/17 1551-1601 - Fair, with REL:AC into USA Radio News at 1555, followed by weather and Scriptures readings. (BD-WI)
- 1410 KWYO WY Sheridan - 11/1 0824 - Strong, blowing everything away, including semi-local KCOL, but with severe fades. With local ads, POL ad and weather at 0826. (JW-CO)
- 1420 KSTN CA Stockton - 11/11 0840 - Fair signal, with Spanish programming. NEW. (VALDX)
- 1510 KFNN AZ Mesa - 10/30 0817-0820 - With KDKO nulled. Ending financial news with local spots and KFNN traffic report. Clobbered at 0820 when KDKO turned on the daytime stuff. Finally pulled enough for a report on this one. (WH-CO)
- 1570 CKEG BC Nanaimo - 10/26 0937 - Surfaced atop KCVR with local news and ads. *C-keg Calendar*, temperature in Nanaimo, etc. (DK-CA)

1600 TO 2400 HOURS ELT

- 590 KLBJ TX Austin - 10/30 - 1957-2003 - Fair, with local call-in show "Sports Talk," SID, ABC news at 2000. (BD-WI)
- 620 CKOY ON Timmons - 11/9 2148 - Good signal, with FF music, in CKCK null. (VALDX)
- 630 KIDO ID Boise - 11/10 2030 - Good signal, with KIDO ID. (VALDX)
- WLAP KY Lexington - 11/10 1657 - Fair-to-poor signal, with Cincinnati Bengals football and a WLAP ID. Into ESPN sports. NEW. (VALDX)
- CJET ON Smith Falls - 11/9 2150 - Fair-to-good signal, with country music and IDs. NEW. (VALDX)
- 640 WHLO OH Akron - 11/9 1740 - Poor signal, but lots of Ohio talk and religious music. NEW! (VALDX)
- 730 KKDA TX Grand Prairie - 11/2 1954 - Program note for *Good Morning Show* from 5-9 AM... on *Soul 73, KKDA*. (JW-CO)
- 760 KFMB CA San Diego - 11/10 2020 - Poor, with sports and IDs. NEW. (VALDX)
- 810 KTBI WA Ephrata - 11/2 1924 - With last part of *Chaplain Ray* program on American Christian Network. 1928 announcer with list of Washington ACN affiliates (KTBI Yakima, KQPN (?), KSPO Spokane, and Coeur d'Alene). Ads. (JW-CO)
- 870 KPRM MN Park Rapids - 11/3 1653-1701 - Good-to-poor over WWL, with C&W into CBS News at 1700. (BD-WI)
- 950 WEJM IL Chicago - 11/9 2135 - Good signal, in CFAM null on west wires, with UC and black music. (VALDX)
- 960 WERC AL Birmingham - 10/16 2052-2101 - Good, with local talk *Fine Lines* into ABC coverage of the Presidential debates. (BD-WI)
- 980 KDSJ SD Deadwood - 11/1 1950 - *Community Focus* and list of sponsors. Heard later at 2143 with play-by-play of *Spearfish Spartans vs Belle Fourche* basketball. (JW-CO)
- 1070 WTSO WI Madison - 11/6 1845 - Good signal until KNX took over. *Talk radio WTSO* and the Tom Leykis show. (CR-CO)
- 1090 WFCV IN Fort Wayne - 11/1 1759-1800 - Poor in splatter from local WTSO, with promos, into program *Home School Heartbeat*. (BD-WI)
- 1130 KSDO CA San Diego - 10/29 1948 - Solid, atop with sports and news. Moaning about Chargers' loss on Sunday. (DK-CA)
- 1220 CJOC AB Lethbridge - 11/2 2022 - *If you love your country, crank it up* - Country Music Radio 1220 CJOC and into music. Fair, with local KBNO nulled on NW-SE wire. (JW-CO)
- 1230 KCBN NV Reno - 10/21 2120 - With ID and ads for Reno merchants. (DK-CA)
- 1240 KODY NE North Platte - 11/3 2029 - Program notes, ads, call ID. Over QRM. (JW-CO)

J. B.'s Brain Teaser: There is a city within 100 miles of Canton, Ohio that has 8 a.m. stations, and not one of them broadcasts on a "graveyard" frequency. What is that city?

- 1250 WEMP WI Milwaukee - 11/10 1940 - Good signal, over and under CHSM, with oldies and IDs. (VALDX)
- 1280 KDYL UT Salt Lake City - 11/2 1909 - Glenn Miller song, call ID and slogan, then more music. Fair, with local KRRF partially nulled on SW wire. (JW-CO)
- 1290 KWFS TX Wichita Falls - 11/2 2006 - Oldies music on *Good Time Rock and Roll, Oldies 1290* and *The Mighty 1290* slogans. Legal ID at 2026. Ex: KLLF. (JW-CO)
- 1320 KRDD NM Roswell - 11/3 2100 - SS/EE legal ID, then faded and immediately heard the Mexican National Anthem very weak. Never does well here. KXYZ Houston, although much further away and also in SS, does much better. (JW-CO)
- 1350 WSMB LA New Orleans - 10/20 1959-2001 - Quick fade-up/fade-out, with promo for several talk programs into CBS News at 2000. (BD-WI)
- 1380 KKHJ CA Lancaster - 10/29 1933 - Atop, with local ads for the Antelope Valley merchants. Buried soon thereafter. (DK-CA)
- 1390 KCRC OK Enid - 11/2 2105 - Ai News ending, promo for *Sooner football* on 99.7 KXLS, 92.9 KNIA, 1390 KCRC (not sure of first two calls). At 2106 a Johnny Rivers song. Poor in QRM. (JW=CO)
- 1420 KMOG AZ Payson - 10/29 1925 - Atop KSTN/KUJ with C&W music, then into *KMOG News Headlines* with Arizona news. First time ever heard, after much trying. (DK-CA)
- 1450 KNOT AZ Prescott - 10/26 1600-1630 - Live show from Prescott Mall. Surprisingly weak here. In null of local KSLX. (JS-AZ)
- KSPA CA Escondido - 10/27 2357-0002 - Surfaced very briefly in jumble, with NOS music and *KSPA* jingle at 2359. (JS-AZ)
- 1470 KYUU KS Liberal - 10/27 2059 - *Another L-S radio station, KYUU Liberal*, then ABC News. Poor, in QRM. (JW-CO)
- 1540 KGBC TX Galveston - 11/2 2127 - Local ad, halftime break of Galveston Bulls football game with mention of 1540 KGBC. Soon lost to KXEL/KTNO. New, for Texas #132. (JW-CO)
- 1550 WJIL IL Jacksonville - 10/23 2356-2407 - In-and-out on crowded band, with Jim Bohannon, promos. Slogan *The talk of Jacksonville*. (BD-WI)
- WMDH IN New Castle - 10/23 2359-2400 - Poor on crowded band, with sign-off message. (BD-WI)
- 1580 CBJ PQ Chicoutimi - 11/3 2222 - Presumed this, with Rangers vs Canadiens NHL game in FF. Announcer goes bonkers after *Le but Canadien*. Strong on 050 degree Beverage and // 860 (presume CJB and not CBKF2). (JW-CO)
- 1600 KCPX UT Centerville - 10/28 2000 - With ID in EE as *KCPX, Radio Fiesta, Centerville-Salt Lake City*, then into Mexican-style music. Solid, atop KGST, who is *Radio Mexicana*. Still atop with similar ID at 2102. (DK-CA)

GRAVEYARD DX UPDATE

* indicates North American record-holder

1230 kHz:

KATO	AZ	Safford	Carl Dabelstein	Omaha, NE	(Tie) 961
KXO	CA	El Centro	Carl Dabelstein	Tucson, AZ	271
KGEK	CO	Sterling	Carl Dabelstein	Omaha	(Tie) 383
WHOP	KY	Hopkinsville	Carl Dabelstein	Omaha	543
KERV	TX	Kerrville	Carl Dabelstein	Omaha	797
KSST		Sulphur Springs	Carl Dabelstein	Lincoln, NE	535
ZBM1	BER	Hamilton	Carl Dabelstein	Omaha	(Tie) 1821

1450 kHz:

WAOV	IN	Vincennes	Bill Dvoark	Madison, WI	318
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DDXD-East *Summers Broadcasting, Inc.*

Deadlines: Weekly on Tuesdays.

WLOU
P.O. BOX 8278 - 25th SOUTH THIRD STREET
LOUISVILLE, KENTUCKY 40208

STATION NEWS

- 540 WDMV MD Pocomoke City - 11/6 1000 - Noted back on the air with C&W music relaying WBEY-FM in Crisfield MD, "Bay Country 92.9," which also seems to be new ... at least it's not shown in my old 14th edition of the FM Atlas. (DB-DE)
- 1080 WKJK KY Louisville - 11/5 0100-0200 - Good at times with long fades, never totally

- gone in KRLD null. C&W, numerous "KJ 1080" non-IDs, slogan "The country legend, nobody plays as much variety as Real Country." Had thought it might be KWJJ, but later heard ID as "WKJK, Louisville KY." I didn't know WHKW had changed calls. (JC-OH) [Neither did we, though the "KJ-1080" non-ID has been noted by several contributors of late. - DY]
- 1270 WXYT MI Detroit - 10/24 - Drops "The Michael Reagan Show" per check of Internet page; had been airing 0007-0300. (DP-HI)
- 1360 WKMI MI Kalamazoo - 10/28 - Adds Tom Leykis per show today. (DP-HI)
- 1460 WCRY NC Fuquay-Varina - Dropped "Dreamland with Art Bell" per October station list on show's Internet page. (DP-HI)
- 1490 WAZL PA Hazelton - Dropped "Coast to Coast AM with Art Bell" per October station list on show's Internet page. (DP-HI)
- WLPA PA Lancaster - 10/24 1537 - With One-on-One Sports network, ID, promo for Eagles football. Also carried CBS World Series coverage. All sports now? (DB*PA)

DX TESTS

- 770 WWCN FL North Fort Myers - 11/3 0300-0400 - Possible code briefly, but WABC and WVNN were booming in making it too tough to tell. (RCP-IN)
- + 11/10 0300-0400 - Not heard (again!) (MB-ON)
- 790 CIGM ON Sudbury - 11/11 0100-0130 - Heard blasting in at almost local quality with C&W songs, code IDs, and announcements between songs: "This is 50,000 watts of hot new country off the ionosphere, for listeners worldwide from Sudbury, Ontario, Canada, this is 790 CIGM," also plugs for the IRCA. Not needed, as this is a mega-pest here every night. (MB-ON)
- 1220 WIMN MN Stillwater - 11/4 0130-0200 - Not heard. (JC-OH) Not heard, WKNR just too dominant. (RCP-IN)
- 1330 WPPI GA Carrollton - 10/26 0000-0200 - Possible with tone from 0110+ under unID REL and Rush Limbaugh rerun on the Bronco's receiver on break at work. No ID; were they on? (JEK-MD) [Yes. - DY]
- 1570 WYTI VA Rocky Mount - 11/9 0000-0030 - Not heard on rescheduled test. (MB-ON) Not heard, WKDB and WBUG dominant. (DY-NY)

UNID and UNID HELP

- 920 UNID - — - 10/21 2050-2100 - In and out with "World Cafe." Possibly WBAA? (TS-MI) [Probably. - DY]
- 1110 UNID - — - 10/11 1901 - Someone signing off with SSB played slowly on a piano. Ideas? (RM-CT)
- 1570 UNID - — - 10/30 2115 - ID as "WSLN with more of your classics," could have been WSL or WXL. (HJH-PA)

LOGGINGS: 0000-0800

- 790 WSVG VA Mount Jackson - 11/5 0626 - C&W music, ad for business in Broadway VA, back into another C&W song, under/over someone with Imus. (DB-DE)

LOGGINGS: 0800-1600

- 1070 WIBC IN Indianapolis - 11/3 1430-1530 - Over, under CHOK with Colts- Chargers football, new in the daytime. (TS*MI2)
- 1100 WTAM OH Cleveland - 10/27 1445-1530 - With Ravens-Rams football, Baltimore spots and net cues "on the WLIF Ravens radio network." Also "Caught you listening ... to the Ravens on 1100 WTAM." (TS-MI)

LOGGINGS: 1600-2400

- 590 WLVA VA Lynchburg - 10/31 1835-1900 - NOS music, Jerry Vale, McGuire Sisters, etc. Many "WLQE The Lake" IDs, some with WLQE/WLVA dual calls. Programming sounded live. Lost to WBNW. (JEK-MD)
- 650 WKKQ MN Nashwauk - 11/1 1900 - Caught at end of Brooks & Dunn tune, then announcer said "It's 6:00 at WKKQ, Nashwauk-Hibbing-Grand Rapids-Virginia ... This is American Country Countdown on 650 WKKQ, brought to you by ..." Apparently 1900 power-cut. Very good while briefly in under WSM. (RCP-IN)

22
 670 WWFE FL Miami - 11/4 1930 - SS programming, ID in EE, no sign of WMAQ. (WM-MD)
 720 WGCR NC Pisgah Forest - 10/31 1802 - At sign-off with mention of 10,000 watts power, followed by "Good night and God bless," SSB, very good and clear, almost equal to WGN. (RCP-IN)
 750 KJEL MO Lebanon - 10/31 1736 - C&W format, ad for "Wallpaper for Less" and mention that KJEL would do a remote from their store on Saturday, followed by "KJEL Regional" ID. Fair but fighting it out with WSB, WNDZ. (RCP-IN)
 760 WMEN TN Knoxville - 10/31 1745 - "Spirit of 76" slogan, several songs back to back by Christian contemporary artists, also ad for "Fred's Alignment of Knoxville." Very good till eventual fade-out, WJR barely heard. (RCP-IN)
 850 KEYH TX Houston - 10/31 1925 - ID in EE, SS slogan "La Ranchera," very stable signal for about 10 minutes rivalling KOA which was easily nulled. (RCP-IN)
 910 WLAS NC Jacksonville - 10/31 1815-1820 - "Happy Halloween from your Entertainment Station, WLAS," local ads, one political for Ernie Wright, and G. Gordon Liddy promo. Good. (JEK-MD)
 920 KDHL MN Fairbault - 11/6 1733-1735 - Good, ad for Fairbault Air Conditioning and Heating, "call Bill at 334-6408," and station ID. (JC-OH)
 WOKY WI Milwaukee - 11/3 1805 - End of news, local weather, SIDs, NOS music. Soon lost to CKNX. (JEK-MD)
 970 WINF VA Waynesboro - 11/2 1715 - ID and back into UVA football game wrap-up. Only heard a few times when they were WANV, have been heard often this season. Pattern change or new antenna-ground system? (JEK-MD)
 + 11/5 1744-1745 - Weak but readable, announcement of "NASCAR Live" program every Tuesday night, and slogan "The place for sports in the Shenandoah Valley." (JC-OH)
 1030 WSFZ TN Memphis - 10/21 2055-2058 - Strong in WBZ null, end of "Tide Talk," 2 minutes of One on One Sports until 2100 ID "Super Sport 1030 WSFZ Memphis," new, first station from Memphis here. (TS-MI)
 1260 WNDR NY Syracuse - 10/25 1735 - In briefly with "W-News" slogan, soon lost in the din. WNDR used to be dominant on 1260 back in the 60's. (JEK-MD)
 1270 WLIK TN Newport - 11/6 2125 - C&W music, ID. (WM-MD)
 1280 WWAR VA Appomattox - 11/6 2000 - C&W music, ID. (WM-MD)
 1290 WVOW WV Logan - 11/6 2130 - ID, mention of West Virginia. (WM-MD)
 1310 WSSJ NJ Camden - 10/24 1605 - OLD, noted with promo as "Philly's Gold Radio, your favorites from the 50s, 60s, and 70s" and another as "Geator Gold Radio," the old 1540 slogan. (DB*PA) [Solving a Jim Renfrew unID from several months back. - DY]
 1330 WASN OH Campbell - 11/6 1845 - Religious music, ID, ad, PSA for church event. (WM-MD)
 1360 WKYO MI Caro - 10/30 1816 - Weak with ID and "You're listening to a simulcast of ... news at 6." (HJH-PA)
 WMOV WV Ravenswood - 11/7 1710 - C&W music, ID, mention of West Virginia. (WM-MD)
 WGEE WI Green Bay - 10/30 1811 - Coming up to fair level with many others, basketball promo with "Play by Play with John Rhino," ID as "1360 WGEE," then "Sportstalk with John Rhino." A needed one. (HJH-PA)
 1370 WGOH KY Grayson - 11/7 1645 - Call letters only heard. (WM-MD)
 WFEA NH Manchester - 11/6 2200 - Wayne Newton song, ID, CBS news. (WM-MD)
 WPAZ PA Pottstown - 11/7 1635 - SID, local news, mention of Route 22, oldies music. (WM-MD)
 WKMC PA Roaring Spring - 11/7 1645 - NOS music, ID, weather forecast. (WM-MD)
 WJWS VA South Hill - 11/7 1652 - Gospel music, weather, ID. (WM-MD)
 1420 WKSR TN Pulaski - 11/7 1745-1750 - C&W music, HS football coach show, ID, ABC news at 1800. (WM-MD)
 1450 WKTQ ME South Paris - 11/12 2000 - ID "Since 1938, AM 1240 WTME Lewiston-Auburn, and AM 1450 WKTQ, South Paris." Probably my unID reported in an earlier issue. (RWT-MA)
 1510 WWSM PA Annville-Cleona - 11/11 1750 - Very good with C&W, ID as "Country 1510 WWSM," promo for bus trip to Spring Rock Lodge, ad and safe driving PSA from Rumble Bee Services in Harrisburg. QSLed circa 1978 as WAHT. (MB-ON)

1570 WLBQ KY Morgantown - 11/6 1806 - Weak in jumble with station ID and announcement of new show "Sports Forum." (JC-OH)
 WANR OH Warren - 10/30 2144 - Weak with ID and promotion for a show on weekdays at 10 and 4. (HJH-PA)
 1600 KATZ MO St. Louis - 11/6 1848-1900 - Strong atop all with black topics call-in show, mentions of St. Louis, GM Lee Clear, "1600 KATZ" IDs. (JC-OH)
 WWRL NY New York - 10/30 2240 - Noted tonight with a definite echo effect; is this broadcasting over the old WLNG as well? (HJH-PA) [I don't think so; WLNG is only 20 watts at night anyway. - DY]
 1630 KXBT CA Vallejo - 10/21 2000-2030 - Very weak signal except for a brief fade up just in time for ID and "classic soul from the 60s, 70s, and 80s." New, CA #5. (TS-MI)
 + 11/2 2045 - With unbelievable clarity at times, never heard at this level, playing what sounded like R&B, frequent IDs. (RCP-IN)
 + 11/2 2127+ - Best signal yet with R&B oldies, political ads for Ross Perot and Sears tire sale, "KXBT AM Stereo" ID. Extreme static foiled good signal. (JEK-MD)

TIS AND MISCELLANEOUS

1610 UNID NC Durham - 11/3 1820+ - Duke University TIS giving detailed directions to the campus from I-85 and US 70, parking information. Signal was briefly good. (JEK-MD)
 1620 KPD581 CT Windsor - 11/2 1730 thru most of evening - CT TIS loop heard well despite "WMCR" open carrier. Dominant from dusk to dawn most evenings when "WMCR" is not programming. (JEK-MD)
 WPFJ404 VA Shenandoah - 11/3 1715 - This sounded like the calls for this one. Mentions of Skyline Drive, Shenandoah National ?, and George Washington National Forest. Best signals are at LSR and LSS. (JEK-MD)
 1630 "WUSB" NY Stony Brook - 11/2 1751+ - Tape loop promoting school enrollment, student activities, mention of FM on 90.1, phone 632-7272. Good signal but summer-like static levels on the expanded band, despite this being the coldest night of the season so far. Call to FM station said they were a different department, and that someone would return my call. (JEK-MD)

REPORTERS

DB-DE	Dave Braun	Wyoming DE - R5000, Quantum loop
DB*PA		DXing in Lancaster PA - Subaru car radio
MB-ON	Mike Brooker	Toronto ON - RF-2200, RFB-45
JC-OH	Jim Cross	Cincinnati OH - R8, homebrew wedge loop
HJH-PA	Harry Hayes	Wilkes-Barre PA - Superadio 2, inoperative SM-2
JEK-MD	Joe Kureth	Uniontown MD - DX375, Superadio 3, LW
WM-MD	William McGuire	Cheverly MD - DX380
RM-CT	Ron Musco	Poquonock CT - R-390A/URR, LW running east
RCP-IN	Robert Pote	Greenwood IN - DX392, Superadio3, Select-a-tenna
TS-MI	Tom Sanders	Davison MI - 2010, Pioneer car radio
TS*M12		DXing in Brighton MI - Pioneer car radio
RWT-MA	Rick Turner	North Dartmouth MA -

ABBREVIATIONS USED IN DDXD

/ /:parallel to :00: on the hour AC:Adult contemporary AP:Associated Press BBD:big band C&W:country & western CCR:contemporary Christian radio CHR:contemporary hit radio CID:code ID CL:call letter EZL:easy listening EE:English FF:French GOS:gospel LSR:local sunrise LSS:local sunset NBA:National Basketball Association NHL:National Hockey League NPR:National Public Radio OC:open carrier PRI:Public Radio International PSRA:pre-sunrise authority PSSA:post-sunset authority QRM:man-made interference QRN:natural interference QTH:location PRI:Public Radio International REL:religious ROK:rock 'n' roll RS:regular schedule \$:stereo SID:singing ID SRS:sunrise skip SS:Spanish SSB:Star Spangled Banner SSS:sunset skip TC:time check TT:test tones UC:urban contemporary UPI:United Press International VID:voice ID

Answer to J. B.'s Brain Teaser: Pittsburgh, PA