

DX News

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Volume 60, No. 18 - February 22, 1993 (ISSN 0737-1659)



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CPC Test Calendar

Call	Freq	Date	EST Time
KBOA	830	Feb. 22, 1993	0100-0200
WDEV	550	Feb. 22, 1993	0400-0500
WSMI	1540	Feb. 24, 1993	0100-0110
WVJZ	640	Mar. 1, 1993	0000-?
WKTX	830	Mar. 1, 1993	0300-0130
KGWA	960	Mar. 1, 1993	0300-0400
KPCR	1530	Mar. 1, 1993	0100-0300
WVCH	740	Mar. 8, 1993	0230-0330
KTNS	1090	Mar. 9, 1993	0300-0400
KWKY	1150	Mar. 15, 1993	0100-0130
KKAR	1180	Mar. 15, 1993	0100-0130
WSMI	1540	Mar. 24, 1993	0100-0110
WECO	940	Mar. 27, 1993	0000-0030
WLKW	790	Mar. 29, 1993	0000-0015

WDEV-550 - P.O. Box 550 - Waterbury, VT 05676 will conduct a DX test from 4:00-5:00 am EST on Monday morning, February 22. The test will include Morse code, tones, and voice ID's. Reception reports may be sent to Mr. Eric Michaels, Vice-President. Arranged by J. D. Stephens for the IRCA CPC.

WSMI-1540 - P. O. Box 10 - Litchfield, IL 62056 will conduct a DX test between 1:00 and 1:10 am EST Wednesday, Feb. 24. The test will include Morse code, tones, and voice ID's and will be part of the station's monthly frequency check. Reception reports, accompanied by an SASE, may be sent to Mr. Brian Talley, N9OWV, Chief Engineer. Arranged by J. D. Stephens for the IRCA CPC.

WKTX-830 - c/o Engineering Dept. - 178 North Mecca - Cortland, OH 44410 will conduct a DX test Monday morning, March 1 from 0100 to 0130 (and possibly until 0200) at both 1000- and 50 W levels. The test will consist of tones, Morse code ID's, march music, and spoken ID's. Reception reports, preferably accompanied by an SASE, should be sent to the above address. Arranged by Jerry Starr for the NRC CPC.

KPCR-1530 - P. O. Box 1 - Bowling Green, MO 63334 will conduct a DX test Monday, March 8, from 1:00-3:00 am EST. The test will include Morse code. Reception reports may be sent to Mr. J. Paul Salois, General Manager. Arranged by J. D. Stephens for the IRCA CPC.

KTNS-1090 - 40356 Oak Park Way - Oakhurst, CA 93664 will conduct a DX test from 3:00-4:00 am EST Tuesday, March 9. The test will include Morse code. Reception reports should be sent to Mr. Larry Gamble, General Manager. Arranged by J. D. Stephens for the IRCA CPC.

KWKY-1150 - P. O. Box 662 - Des Moines, IA 50303 will conduct a DX test from 1:00-1:30 am EST Monday, March 15. The test will include Morse code, tones, voice ID's, and possibly march and polka music. Reception reports may be sent to Mr. Howard Kling, CE. Arranged by J. D. Stephens for the IRCA CPC.

KKAR-1180 - 1001 Farnham-on-the-Mall, Omaha, NE 68102 will conduct a DX test for a 15-minute period between 1:00 and 1:30 am EST Monday, March 15. The test will include Morse code and possible march music. Reception reports may be sent to Mr. Allen Sherrill, CE. Arranged by J. D. Stephens for the IRCA CPC.

(Details for other tests listed above were in previous or will be listed in future DXN's.)

From the Publisher... Mark Hunter reports that Audio Sound Entonics - 9600 54th Ave. North - Plymouth, MN 55442, (800) 524-6638 sells and services the Philips Cassette Car Radio DC-777, which covers AM/FM/SW.

Welcome to these new members: Thomas J. Reiser, Chicago, IL; Richard T. Eddie, St. Louis, MO (rejoins).

DX Time Machine

From the pages of *DX News*:

50 years ago ... from the Feb. 20, 1943 *DXN*: Dick Cooper, Kittanning, PA heard KTKC-940, Visalia, CA sign off at 2 am, followed by reception of Algiers-941; but Bud Kopp, Rockford, IL reported not much early-morning DX because his listening post is so cold that frost freezes on the nail heads in the shack.

25 years ago ... from the February 17, 1968 *DXN*: Bruce Reynold, MO logged LR3-950 R. Belgrano, Argentina at 0410 on Feb. 7; IDXD editor Gordon P. Nelson termed it the best bet for this country on the east coast.

10 years ago ... from the February 21, 1983 *DXN*: John Clements' state-city index was offered for \$3.50 as a supplement to the *Domestic Log*.

AM Switch

Jerry Starr
c/o WHOT Radio
4040 Simon Road
Youngstown, OH 44512-1320

Status changes in AM stations, supplied by the FCC and listeners

CALL LETTER CHANGES

Old call:

540 KJQI CA Costa Mesa
560 WISH PA Philadelphia
1260 KOJY CA San Fernando

New call:

KOJY
WAEZ*
KJQI

*WAEZ never changed to WISH as noted a few weeks ago even though they are calling themselves "WISH" on the air, licensed call remains WAEZ. 540 and 1260 above are now simulcasting and are apparently playing musical call letters.

APPLICATIONS/GRANTS FOR NEW STATIONS

None

APPLICATIONS FROM EXISTING FACILITIES

700 CHSJ NB Saint John: increase powers to 25000/10000 U4 would replace the CP shown in Log
710 KNUS CO Denver: increase day power to 25000 watts, reduce night power to 2700 watts
850 KORC OR Waldport: add 10 watts nights, antenna to U1
990 WALE RI Providence: city of license to Greenville, RI

GRANTS TO EXISTING FACILITIES

None

OTHERNESS


900 WCOB TN Lebanon: silent station has been sold, may return
920 WMMN WV Fairmont: silent station is ON THE AIR, returned on 2-1-93 with CNN News
950 WNOC PA Barnesboro: silent station has been sold to owners of WCOB-1230/WRDD-1580 and is expected to return to the air and carry same programming as the existing WCOB/WRDD simulcast.
970 WHWB VT Rutland: station is SILENT
1010 WXLX NC Albemarle: silent station has been sold to owners of WZKY-1580 Albemarle, may signal a possible frequency change for WZKY
1030 KTWO WY Casper: station has been using 30000 watts NON-DIRECTIONAL at night due to fire damage at their antenna site, change is temporary but may afford DXers in the east a better chance at this state for a few weeks.
1050 WNTR MD Silver Spring: station went SILENT 2-1-93 (note that WMDO-1540 which uses the same antenna tower as WNTR has not been affected)
1150 WKPA PA New Kensington: silent station is ON THE AIR
1230 WBME ME Belfast: silent station is ON THE AIR
1260 KVSF NM Santa Fe: as reported two issues ago this silent station has returned to the air, they are presently rebroadcasting KLOT (FM) Espanola, NM but will switch to a talk format once their studio facilities are completed.



1400 WBRL NH Berlin: station has notified the FCC they plan to return to the air "by the end of 1993"
WHIL NC Raeford: station is SILENT
1410 KLEV TX Cleveland: station is SILENT
1450 KDRW CO Silverton: license for this silent station has been CANCELLED and call letters DELETED (note their FM station was also cancelled due to failure to file for license renewal in 1990)
KSKR MT Whitefish: even though this station appears to have been silent since 1987, a letter from the FCC states they have not notified the FCC they are off the air and are "presumed to be operating." Do we have anybody in that area who can confirm this?
WKEL SC Myrtle Beach: another station thought to still be silent but "presumed to be operating" by the FCC, can somebody in the area confirm?
1460 WCRY NC Fuqua-Varina: silent station is ON THE AIR and rebroadcasting WEEB-990 Southern Pines, NC.
1520 KFEX MO Candenton: CP for new station DISMISSED (station was granted in 1986 but was never built)
1550 WVAB VA Virginia Beach: this silent station was heard testing in October of last year but it never came back on the air. Testing was again heard in early 1993 but so far regular broadcasting still has not resumed.

THANKS: Dave Norment, David Lewis, Bill Swiger, John Bowker, Shawn Axelrod, Dave Braun, Dave Schmidt and MSJ. Special thanks go to Shawn who mails us a copy of the complete actions of the CRTG every week and David Lewis who, tired of the runaround at the FCC, wrote to Senator Danforth. He shook the chain and got the station info Dave wanted from none other than Roy Stewart, the Chief of the Mass Media Bureau. This provided the information on some of the "silent" stations noted above.

73 and Good DX, *Jerry & BKF* Jerry Starr & Buffalo K. Foorman



The NRC AM Radio Logbook, 13th Edition, is the most accurate AM radio listing of stations in the U. S. and Canada. Only \$16.95; Canada \$17.95 to U. S./Canadian NRC Subscribers ONLY. \$19.95 to U. S., Non-NRC Subscriber; \$20.95 Canadian Non-NRC Subscriber. Airmail: to Europe, \$27.00, to the Pacific nations, \$32.00.
Mail to: NRC Publications - Box 164 - Mannsville, NY 13661 (NY residents add sales tax)

Domestic DX Digest

North: Bill Hale

495 Creekview Drive - Meridian, ID 83642-3241

South: Duncan Shaw

3131 S. McClintock B111 - Los Angeles, CA 90007

East: Dave Braun

11 Mill Bend Acres - Wyoming, DE 19934-9523

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



DDXD North

MEDIUM WAVE RAMBLINGS

Waldorf Commercial Center
Box 3B, Montgomery Lane
Waldorf, MD 20601

- Just a short *Thank You* to all the faithful reporters from Canada, who account for more than 60% of the loggings to DDXD-N. I broke down the numbers for the first 15 Issues this year, and the boys from the *Frozen North* are really keeping me in business. And there are plenty of other members from Newfoundland to British Columbia who should be accounted for here. As long as the muk-luks keep the transistors from freezing, hi. This is the place to be. DDXD!!
- **Bob McCoy** of Lincoln, Nebraska notes that his local KFMQ-1480 went silent on January 22nd or 23rd, so he's been camping out on 1480 with great results. He notes he only reported the *new* loggings. Rumor control suggests new owners, so he has no idea how long the break is going to last. Strike while the DX is hot, and the local is off to fatten up the old logbook, Bob.
- Just a reminder that call letters, city, state/province and time/date info are all integral parts your report. So don't forget to include these items, even on DX Tests and UNID items.
- Remember, if you've got a logging or tip that just won't wait for Mr. Postman to deliver it, call me at 208-888-7398. Call between 6 and 9 PM Mountain Time. Or leave a message on Prodigy at MTFH12A. Or, via FidoNet. CUN VII.

SPECIAL

- 580 CKWW ON Windsor and
800 CKLW ON Windsor - In a message posted (2/4/93) on FidoNet's *Broadcast* message area, the CRTC has unconditionally approved the sale of CKLW AM & FM to CHUM, Ltd. This means that CHUM now owns all four commercial radio stations in Windsor. CKLW-AM will go to all-talk, while low-powered (500 watt) CKWW gets CKLW's big band format from *The Big 8*. [Ed.-ID]

UNIDs and UNID HELP

- 630 CKRC MB Winnipeg - Is MJ-MT's *Country 630* unID. They do SBN and Country Coast-to-Coast, so I'd bet on this one. (SA-MB)
- 710 WUFF GA Eastman - Maybe GH-OH's unID as they are listed as C&W and have an FM on 97.5 WUFF-FM. (SA-MB)
- 770 UNID ?? - 1/29 1830 - With Barry Farber talk show. Never an ID, but strong & steady with WABC phased out. Suddenly gone at 1850. Any ideas? (DT-IN)
- 1290 KGVO MT Missoula - To AM-IL, the Log lists a KGVO here. (SA-MB) [Now, how did I miss that?! Grrrr - Ed.]

DX AND EQUIPMENT TESTS

- 600 WMT IA Cedar Rapids - 1/31 0100-0200 - Started off by inviting anyone listening to call 800-322-5401 → CID → announcement about the different antenna patterns used during the test → CID and 1 kHz TT. First half of test was non-directional, while they mentioned that this was their first-ever DX test and it was in cooperation with the NRC. Seventeen phone calls reported, covering IA, PA, LA, MS, MA, TX, OK, TN & GA. Good to XLNT over Cuba/unID oldie station. Directional test somewhat weaker. CIDs still heard but VIDs were down in the hash until final 15 minutes. (JL-OH)
- 660 KEYZ ND Williston - 1/25 0150 - Good at 0148 with C&W music, 0150 4-KEYZ CIDs, the Williston, C&W music. CIDs again at 0155. (SA-MB)
- KEYZ ND Williston - 1/25 0130-0200 - Code and voice IDs, stronger with time. (BMc-NE)
- KEYZ ND Williston - 1/25 0145-0150 - Not heard. Even WFAN was not heard. Tuned to WMAQ, then to 660 for awhile. No sign of any station. Unneeded, as heard on 1360 years ago. (KO-IL)
- 780 KAZM AZ Sedona - 1/25 0200 - Fair with march music, TTs from 0203 to 0204 and again at 0213. Under WBBM. New for me! (SA-MB)
- KAZM AZ Sedona - 1/25 0200-0210 - Heard weak in decent WBBM null with tones and march music, but no IDs. (KO-IL)
- KAZM AZ Sedona - 1/25 0200-0230 - March music, tone, VID thru WBBM. (BMc-NE)
- 1180 KOFI MT Kalispell - 2/1 0400-0500 - Not heard. Only Cuba and WHAM.(JL-OH)
- 1420 WOC IA Davenport - 1/18 0215 - CID, VIDs, possible BBD music. Variable signal strength. (BMc-NE)
- 1590 WARV RI Warwick - 1/25 0340 - Very poor with CID at 0340. Frequency a mess with many stations up & down (WAKR/KZOK/KCNN/unID EZL/SS stn). New for RI #1. (SA-MB)

WCAB

P.O. BOX 511
RUTHERFORDTON, NC 28139

TIS & OTHER STUFF

- 1610 TIS WI Kenosha - 1/29 2200-2230 - Phased out Anguilla. Amazing signal, almost continuous reception. Mentioned 800-432-TRIP for travel info, 800-372-2737 for winter sports info. Info on many Winterfest activities in Eau Claire, Beloit, Green Bay and Milwaukee. Evidently located at Welcome Center on I-94 at Exit 347. Noted several nights since. (DT-IN)

MIDNIGHT TO 0800 HOURS ELT

- 1360 WKYO MI Caro - 1/25 0725 - Fair with *Job Line* program, phone 673-7787. ID as AM 1360 WKYO. C&W music, w/mention of . . .right here on KYO. (MS-ON)

0800 TO 1600 HOURS ELT

- 880 WCBS NY New York - 1/22 1047 - Fair on a good day for daytime skywave with TC as *WCBS Newstime 10:47*, ad for a home furnishings and interior decorating show. WABC-770 also coming in at the same time. (MS-ON)
- 890 WLS IL Chicago - 1/22 1049 - Good with program announcements . . .right here on *Talk Radio WLS*. (MS-ON)
- 1190 WOWO IN Fort Wayne - 1/22 1051 - Good w/farm report, local ad, ID. (MS-ON)
- 1260 KWYR SD Winner - 1/23 0835 - Good with weather for South Dakota & Nebraska, TC, local sports and *Country 1260* IDs. (SA-MB)
- 1330 KRDO ND Wishek - 1/23 0845 - Good with C&W music, local ads, *KRDO Wishek* ID. Over KNOW. (SA-MB)
- 1460 CJMH AB Medicine Hat - 1/24 0840 - Good w/EZL music | 1010 CBR. (SA-MB)

- 1480 **WJBM** IL Jerseyville - 1/28 0933 - News and TC. KFMQ silent & wintertime conditions. (BMc-NE)
KLEE IA Ottumwa - 1/29 0757 - News at 0800 sponsored by South Ottumwa Savings Bank. (BMc-NE)
KSDR SD Watertown - 1/26 0815 - Tire store ad, call ID. (BMc-NE)

WBEE 1570

15700 Campbell, Harvey, Illinois 60426

1600 TO 2400 HOURS ELT

- 560 **WGAN** ME Portland - 1/22 1858 - Fair with office equipment ad, Dunkin' Donuts ad, ID *This is WGAN Portland, Maine's Number one station for news and talk*, then into news. (MS-ON)
580 **CFRA** ON Ottawa - 1/27 1634 - Poor in CKYC splatter with ads for Ottawa, Gatineau, etc. Ottawa weather. (MS-ON)
630 **CFCO** ON Chatham - 1/22 1625 - Poor in CHOG splatter with 630 CFCO ID, CFCO Trivia Contest, pizza ad. Used to be a regular in Metro Toronto before CFCM (now CHOG) moved to 640 a few years ago. (MS-ON)
660 **WMIC** MI Sandusky - 1/25 1700-1710 - Poor with ABC & local news, local ads, mentioned WMIC/WTGV News, so perhaps 1 FM? Mixing with unID (not WFAN). (MS-ON)
800 **KXIC** IA Iowa City - 1/29 1828 - With ad for Valentine contest, ID and into news at 1830. (DT-IN)
820 **WRFA** FL Largo - 1/29 1758 - With end of Bob Larson Talkback program, ID and power cut at 1800. (DT-IN)
860 **WAEC** GA Atlanta - 1/28 1845 - With Channel 2 6 O'Clock News. Broke for local ad when Channel 2 went to their ad break. ID and religious ad at 6:45 PM. All alone. (DT-IN)
940 **WIDG** MI St. Ignace - 1/27 1651 - Fair with help wanted info - phone 800-733 JOBS - presented by The station that cares about you in Northern Michigan. Mentioned WIDG, WMKC & other affiliated stations. C&W music. In CBM null. (MS-ON)
990 **CBW** MB Winnipeg - 1/27 2158 - With promo for various upcoming CBC programs, Northern Manitoba weather including wind chill warning, then weather for Southern Manitoba and Northwest Ontario, ID, CBC News. Fair with WLUP splash. Normally inaudible unless WLUP is off. (JR-IL)
1000 **WYBT** FL Blountstown - 1/28 & 1/29 1925 - With C&W and ID as Y-1000 and K-102.3 WDHK. Had to try two nights to positively ID this one as WLUP phased out but unID carrier also on 1001 kHz creating het. Sign-off as Big 10 Radio, located as 269 Kelly St. What is this doing on this late? Thought at first I had NM or AZ!! (DT-IN)
1070 **WIBC** IN Indianapolis - 1/27 2147 - Fair → poor with Talknet. Warring with CHOK. (TR-IL)
CHOK ON Sarnia - 1/27 2145 - Poor with Oldies 1070 ID. Lost to WIBC by 2147. (TR-IL)
1100 **WYKR** VT Wells River - 1/20 1635 - Very good with C&W song called Rock Me In The Cradle of Love, ID by man, WYKR, the best country in the country, who then talked about Clinton inauguration, ad for Tri-States Megabucks Lottery read by Rich Little. (MS-ON)
1130 **KFAN** MN Minneapolis - 1/23 1646-1702 - Fair with Kansas Jayhawks vs Colorado basketball on Jayhawks Radio Network. Many Kansas ads, eg: Bank Four - wherever you live in Kansas, State Farm Insurance and Blue Cross/Blue Shield of Kansas. Finally got local ID at 1701 as Sports Radio 1130 KFAN. Was hoping for something more exotic! (MS-ON)
1190 **WLJB** NY New York - 1/20 1627 - Fair with suggestion that advertisers contact WLJB to reach the Afro-American market. (MS-ON)
1210 **WKNX** MI Frankenmuth - 1/27 1658 - With ad for Mike ? 's Trucks in Frankenmuth and an auto insurance agency in Greece featuring low rates for seniors, then → instrumental music. Fair in WOGL null. (MS-ON)
1260 **WBNR** NY Beacon - 1/19 1627 - Fair with oldie Do You Want To Know A Secret, IDs as CNR and 1260 WCNR, another oldie, ID @ 1630 as WCNR Beacon (missed second city name in ID). (MS-ON) [Where did the C come from in those IDs?? You heard WCNR? - Ed]

- 1310 **WORC** MA Worcester - 1/19 1633 - Fair with CNN News, weather mentioning WORC complete weather details → oldie. GTO - no longer country? (MS-ON)
WXMC NJ Parsippany-Troy Hills - 1/26 1638 - Good with oldies (not NOS), TC, ID as 1310 WXMC. (MS-ON)
1350 **KRNT** IA Des Moines - 1/23 2300 - Poor with basketball(?) game, KRNT ID, list of sponsors. Mixing with WSLR, no sign of local CKDO. (MS-ON)
1360 **WKMI** MI Kalamazoo - 1/27 1700 - Good, with mention of . . . on WKMI Kalamazoo, then into ABC news. (MS-ON)
1370 **WGCL** IN Bloomington - 1/19 1700 - Fair with WGCL ID, AM 1370 News Update, mentioning . . . 38° in downtown Bloomington, then into lead item on Indiana Gas. (MS-ON)
1450 **WKXL** NH Concord - 1/19 1600 - Poor → fair in CHUC null with basketball schedules, promo for basketball game on WKXL 102.3, your voice for sports in Concord. CBS News. (MS-ON)
1480 **KTHS** AR Berryville - 1/26 1809 - From Ozark, Missouri to Mountain Home, Arkansas, KTHS. C&W music. Also common at LSS. (BMc-NE)
KRRU CO Pueblo - 1/28 1901 - Call ID emerged from mess at right time, for a change. (BMc-NE)
KKCQ MN Fosston - 1/25 1826 - Minnesota Fishing Program, with PSA from Minnesota Department of Natural Resources on driving on frozen lakes. (BMc-NE)
KRAE WY Cheyenne - 1/28 1852 - Promo for Air Force Academy basketball, Osgood File, Kay-Ray IDs. (BMc-NE)
1590 **WARV** RI Warwick - 1/20 1600 - Fair with news, traffic report mentioning Providence and WARV Traffic Net, grocery store ad, TC, CL ID by female → religious talk program called Talkback. (MS-ON)

REPORTERS

- SA-MB** Shawn Axelrod Winnipeg, MB; ICOM R-70 w/PLAM board & 0.5, 2.4 & 4 kHz filter + 4' box loop or 100' lw
TR-IL Thomas Rieser Chicago, IL; Sony ICF-2003 barefoot
KO-IL Kenneth Onyschuk Homewood, IL; 12-year-old GE Superadio II
DT-IN Dick Truax Sellersburg, IN; HQ180AX + pair of 130' phased wires, 2½ box loop
BMc-NE Bob McCoy, N0SCB Lincoln, NE;
MS-ON Morris Sorensen Scarborough, ON; Hammarlund HQ-150 w/McKay-Dymek DA-9 and SM-2 Space Magnet ferrite loops
JL-OH Jeffrey Less Toledo, OH; Panasonic RF-5000A
Ed-ID Editor Meridian, ID;

ABBREVIATIONS AND SPECIAL SYMBOLS USED IN DDXD - North

||:parallel with or to →:into :00:on the hour AC:Adult contemporary AP:Associated Press
BBD:big band BRN:Business Radio Net C&W:country & western CHR:contemporary hit radio
CID:code ID CL:call letter ContChr:contemporary Christian EZL:easy listening EE:English
FF:French GOS:gospel IRN:Interstate Radio Net LSR:local sunrise LSS:local sunset
NBA:National Basketball Assn NHL:National Hockey League NFL:National Football League
NPR:National Public Radio OC:open carrier POL: political PSRA:pre-sunrise authority
PSSA:post-sunset authority QRM:man-made interference QRN:natural interference QTH:location
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



73, Bill

DDXD-South

SPECIAL!!!

- 540 KOJY CA Costa Mesa - 2/7 1730 Now NOS //KJQI-1260, ex KJQI & CLA //KKGO-105.1 FM. See 1260 item below. (DJS-CA)
- 1260 KJQI CA San Fernando - 2/7 1740 SILENT STATION BACK ON WITH NEW CALLS with NOS programming //KOJY-540. DJs include Gary Owens, Bill Southcott (plus more of the old KMPC staff). IDs as "from 540 and 1260, you're listening to the all new K-Joy" and "The music memories are made of." ex-KGIL & TLK. (DJS-CA)

DX & EQUIPMENT TESTS

- 600 WMT IA Cedar Rapids - 1/31 0100-0200 clobbered by Cuba and WREC but code IDs made it through on both patterns; many call-ins to the 800 number, including me. (RS-MO); CW IDs; WMT-I to 0133, and apparent antenna change w/poorer signal and then CW IDs for WMT-3. Moderate/severe QRM from WSJS, SS (probably Cuban), and a REL stn w/ 2 "IDs" heard as "Heaven's Station" (who?). A most welcome test as another 3-letter call is added to the log! (MH-NC)
- 950 KKTQ TX Lubbock - 1/18 Not heard, mostly R. Reloj in Cuba. I imagined I heard smatters of code, but not enough to be sure. (DT-JA)
- 1180 KOFI MT Kalispell - 2/1 0430-0455 Not noted, but only presumed WHAM W/Larry King and SS stn. (MH-NC)
- 1420 WOC IA Davenport - 1/18 0215-0230 Nothing heard, but I believe I got Caracol, Columbia. (DT-JA)

0000 - 0800 ELT

- 770 WVNN AL Athens - 1/31 0237-0306 Strange programming noted - WABC easily nulled and a C&W stn noted w/promo for "The New 93 Country", "93 Light", and ment of 93.3. Promo for an Alan Jackson concert coming up in Huntsville, and where listeners can get tix. at 0249:30 the stn went to open air in the middle of a record, and then returned at 0250 with the Jim Bohannon Show! ID at 0259:55 "Lock in your radio dial to AM 770; we're the talk of the valley - WVNN - Athens-Huntsville-Decatur." Into Mutual Nx, and back to Jim Bohannon after the news. Good signal with WABC nulled, and an ever-present SS stn (probably Cuba). (MH-NC) (Did I follow that, Mike? -djs)
- 1130 KAAB AR Batesville - 1/30 0751-0753 "We're someone you turn to, KAAB, Batesville", local spots & Wx.. lost under KWKH. New here. (WH-CO)
- 1210 WCMQ FL Miami Springs - 1/11 0405-0425 Latin American music, singing ID at 0425 "--WCMQ", emphasis on the CMQ, good, no interference. (DT-JA)
- 1230 WSBB FL New Smyran Beach - 1/11 0431-0500 NOS, no announcements, ID at 0500 "--WSBB--"; fair w/ interference, likely WJNO w/ talk. (DT-JA)
- 1340 WPBR FL Palm Beach - 1/15 0612-0539 Traffic report mentioning accident on I-95, wx, 0630 nx, interference from unID SS (Cuba); poor. (DT-JA)
- 1350 WWHL FL Cocoa - 1/15 0641-0654 Talknet with Bruce Williams, net ads, fade-out at 0658; interference from unID SS, and sign-on of Cuban at 0656; poor. (DT-JA)
- 1410 WLTV AL Mobile - 1/17 0030-0045 REL, ad for Brother Young Health Food Store, GOS, lots of IDs, including "You are tuned to WLTV Mobile, AL", fair, interference from WING (DT-JA)

0800 - 1600 ELT

- 640 WCRV TN Colliersville - 1/30 0804 USA Radio Nx to IF & REL pgm fair to poor o/u KFI. New here. (WH-CO)
- 1320 KCNR UT Salt Lake City - 1/30 0821-0830 CNN Headline News, spots, ID and more CNN. First time for call change ex-too many calls (WH-CO)

1600 - 2400 ELT

- 850 WRUF FL Gainesville - 1/7 2109-2204 Talk show, sports talk, 2203 wx, ments of Gainesville, o/u JBC R. 1, Savanna-la-mar (other side of island from me). (DT-JA)
- 980 WWNN FL Pompano Beach - 1/8 2054-2130 "Hot Line" talk show; 2100 REL, 2130 ID "--WWNN"; poor under unID SS (DT-JA)
- 1030 KTWO WY Casper - 1/28 1911 On top of pile with "K-2 News... K-2 weather for Casper..." (RS-MO)
- WJKZ TN Dickson - 1/26 1900 OC all day; come evening WQSV relay of basketball game. (RS-TN)
- KCTA TX Corpus Christi - 1/26 1900 sign off through WJKZ OC. (RS-CA)
- 1230 WJNO FL Pompano Beach - 1/12 2050-2100 NX, CBS, Ft. Lauderdale ment, wx "right here on WJNO"; interference from WSSB; poor (DT-JA)

weep
1080/ami

Fulton Building
107 Sixth Street
Pittsburgh, PA 15222

- 1300 WIBR LA Baton Rouge - 1/13 2128-2250 Talk, ID at 2145 "--WIBR--", u/ WFFG; poor (DT-JA)
- 1390 WEED NC Rocky Mount - 2231-2300 "Radio Sports WEED", promo for People's Network AM program. ID "Radio WEED Rocky Mount", talk show from People's network program, fair. (DT-JA)
- 1400 WTRR FL Sanford - 2335-2341 PBP Orland-Chicago basketball on "Magic Network" end of game, poor o/u 3 or 4 others, sudden breakthrough (DT-JA)
- 1440 WPRD FL Winter Park - 1/17 2034-2100 CNN headline nx, ID 2100 "1440 WPRD", promo for program "on WPRD", poor, heavy "hum" (DT-JA)

REPORTERS

- (DT-JA) Don Trelford; St. Anns Bay, Jamaica; Realistic DX-440
- (MH-NC) Mike Hardester; Jacksonville, NC; ICOM R-70, Radio West 22" ferrite loop
- (WH-CO) Wayne Heinen; Aurora, CO; R-390A, 4' loop, Kiwa MAP unit
- (RS-MO) Rocky Stone; Hollister, MO; R-2000, SM-1 (RS-TN) DXing in Nashville, TN; Car Radio
- (DJS-CA) Duncan J. Shaw; Los Angeles, CA; Sangean ATS 818-CS

DDXD-East

WEVD

AM STEREO 1050

NEWS AND VIEWS

Welcome to first time reporter Dave Norment, who also reports on some testing by WTEM-570 on their new transmitter beginning 1/29/93. Welcome also to another first time reporter, Elliot Straus. Good to hear from both of you, and continue to report when you can!

Jeff Multer sent along a copy of the Charlotte Hornets radio network which I will pass on to Barry Finkel.

Laurence Kearley includes some IDs and slogans he heard while he was home sick and "forced to DX" which are included under "Special". Laurence also says that he found a source in Ontario for the Superadio II - Home Hardware.

I received a phone call from Dave Schmidt while he was working at WKEN last night, good to hear from you Dave.


SPECIAL

- 670 WIEZ PA Lewistown - Is IDing as "Oldies 670". (LK-ON)
- 870 WHCU NY Ithaca - Appears to have a format change and is IDing as "news Radio 870". (LK-ON)
- 960 WBEU SC Beaufort - 12/30 2228 In, simulcasting with WYKZ-FM, with "Kiss FM, Light 98.7" IDs. Not bad for 48 watts! New here. (JK-VA) (AM Switch in No. 9, 12/7/92, showed this as silent - db)
- 1420 WCED PA DuBois - IDs as "Classic 1420". (LK-ON)
- 1440 WMAX MI Bay City - Has an all news format and IDs as "The News Station" and "Your news station, 1440 WMAX". (LK-ON)
- 1450 WFPG NJ Atlantic City - Is IDing as "Talk Radio 1450". (LK-ON)
- 1460 WGNA NY Albany - IDs as "All new, Country 107, WGNA". (LK-ON)
- 1600 CHNR ON Simcoe - Is IDing as "Hits 160". (LK-ON)

DX TESTS

- 540 KNAK UT Delta - 1/4 0200-0230 Zzzzz. (JK-VA)
- 660 KEYZ ND Williston - 1/25 0140-0200 No show, only WFAN. (WPT-DC)
- KEYZ ND Williston - 1/25 0130-0200 Not heard, too much WFAN, and semi-auroral conditions (CA/SA spanish stations). (JK-VA)
- 690 KEWI AR Benton - 1/23 0300-0330 Zzzzz. (JK-VA)
- 780 KAZM AZ Sedona - 1/25 0200-0230 Not heard, too much WBBM/Cuba/SA Spanish UNID. (JK-VA)
- 920 KDES CA Palm Springs - 1/11 0415-0430 Not heard, just CKNX. (WPT-DC)
- KDES CA Palm Springs - 1/11 0200-0430 Zzzzz. (JK-VA)
- 950 KXTQ TX Lubbock - 1/18 0230-0252 Not heard because of WOPEN/Cuban. (WPT-DC)
- KXTQ TX Lubbock - 1/18 0230-0330 Zzzzz. (JK-VA)
- 1020 WNTK NH Newport - 1/4 0300-0330 Zzzzz. Verified WZNN-930 last year. (JK-VA)
- 1070 WANM FL Tallahassee - 2/6 0020-0025 Code IDs even with the mess on the rest of the channel, nothing else heard. (DB-DE)
- 1150 KCKY AZ Coolidge - 1/11 0430-0445 No show, too much WMET. (WPT-DC)
- 1180 KOFI MT Kalispell - 2/1 0400+ Nothing heard, only WHAM and an UNID SS, probably Cuba. (DB-DE)

10
 1280 KEAN
 1420 WOC
 WOC
 1540 WSMI
 1590 WARV



TX Abilene - 1/4 0330-0400 Zzzzz. (JK-VA)
 IA Davenport - 1/18 0215-0230 Not heard, just WCED/CJMT. (WPT-DC)
 IA Davenport - 1/18 0215-0230 Zzzzz. (JK-VA)
 IL Litchfield - 1/25 0100-0107 In with morse code "WSMI WSMI" and test tones, over semi-local strength KXEL, no audio heard. (JK-VA)
 RI Warwick - 1/25 0330-0430 Good with loud morse code for the entire time: "WARV WARV 1590 KHZ,...Special broadcast for the National Radio Club," religious programming: "...God I thank you...., This is WARV, Warwick, Rhode Island,"etc. No sign of WAKR. New state here in Virginia! Thank you Mr. Hubbard and the NRC CPC! (JK-VA)

UNID AND UNID HELP

540 UNID 1/31 0233 - Heard "...one and only Sportsradio, W..." and sports talk, under CBEF/CJSB. Has WGTO changed to all sports? (BC-NH)
 740 UNID 2/2 0756 - CW music in null of WVCH, traffic report with mentions of, I think, Deer Park Road and Mount Pleasant. (DB-DE)

0000 to 0800 ELT

540 WWCS PA Canonsburg - 1/31 0340 Up and over CJSB briefly with "We are WWCS Canonsburg". Gone as fast as it arrived! New here. (DN-MD)
 570 WMCA NY New York - 1/29 0312 WTEM on and off. No positive ID, heard preacher preaching. Log says contemporary christian format. Will assume it's WMCA. First time heard. (DN-MD)
 WSYR NY Syracuse - 1/29 0305 WTEM off. Heard "Here's the AM 570 WSYR forecast" over WKBN and others. Never heard before. (DN-MD)
 WWNC NC Asheville - 1/29 0313 ID heard on top of mess. WTEM off. New for me. (DN-MD)
 WKBN OH Youngstown - 1/29 0300 Noticed WTEM on and off testing new transmitter site. Heard "Radio 57 WKBN" above the mess. First time heard. (DN-MD)
 630 WMAL DC Washington - 1/31 0552 A talk show then ads and ID jingle "News 630, WMAL" and "Monday morning on WMAL..." and back to Rush Limbaugh. A tough one due to semi-local CJET, but Superadio II nulled it. (LK*ON)
 640 WWJZ NJ Mount Holly - 1/27 0715 KFI was coming in nicely, when all of a sudden "640 WJZ - weather for Atlantic City...29 degrees...at the station that remembers, 640 WJZ", in with power increase/pattern change. New, for NJ #5 in VA. Maybe they QSL? (JK-VA)
 670 WWFE FL Miami - 1/31 0557 Opera type song and another both in SS then, at 0602 ID as "Radio Fe WWFE" in SS into news with frequent references to Miami. My first ever Florida thanks to the Superadio II and the deep null of WMAQ which it produced. (LK*ON)
 720 CHTN PI Charlottetown - 2/1 0345-0400 "Oldies Coast-to-Coast on 720 CHTN" excellent over/under WGN. (ES-NJ)
 740 KRMG OK Tulsa - 1/25 0502 ID heard over/under CBL. First time heard. (DN-MD)
 CHCM NF Marystown - 1/31 0143 Good with "Today's hits, yesterday's favorites - VOCM" ID. CBL was off. (BC-NH)
 790 CIGM ON Sudbury - 1/25 0405-0540 In good, sounding like 50 kw, with CW and "Today's country music and yesterday's favorites...I'm Chris Johnson...as you wake this morning, -15 degrees at 790 CIGM". New in VA. Hello Great White North! (JK-VA)
 850 KOA CO Denver - 12/31 0230 Good signal with discussion about Broncos football. First time heard from this location as WEEU and WRMR dominate above mess. (DN-MD)
 860 WYJZ PA Pittsburgh - 1/31 0103 Good briefly with weather and featuring Stevie Wonder hits, otherwise weak under/over an UNID SS station in CJBC null, but still a nice surprise for only 120 watts. (BC-NH)
 920 CKNX ON Wingham - 1/25 0410-0620 Good with "From your friends in the country, this is AM 920, Standard Broadcast News" mentions, and CKNX IDs during the morning show. Not bad for 1000 watts, new here. (JK-VA)
 1250 WGL IN Fort Wayne - 1/28 0705 National news then call ID into local and Indiana stories. Fade. (LK-ON)
 1340 WENT NY Gloversville - 1/27 0657 Tentative ID. Song "You're Every Woman in the World to Me" then, on the hour, two call IDs "WE T" and into NBC news. I'm almost positive that I heard WENT. Fade with the usual jumble of stations. (LK-ON)

1360 WDRC CT Hartford - 1/19 0231 Strong briefly with ID and nostalgia type format. New to this location although probably heard before but never got a legal ID. (DN-MD) (One of the joys of satellite networks! - db)
 1390 WLAN PA Lancaster - 1/27 0735 Tentative with local news from Pennsylvania and Lancaster. Mixed with WEOK. (LK-ON)
 1410 WLSH PA Lansford - 1/27 0758 Instrumental song then call ID "WLSH Lansford" on the hour and into the news. Weak in much QRM and in null of WNCQ. (LK-ON)
 1430 WNFO SC Ridgeland - 2/1 0245-0310 With 250 watts as per call to station. They had no idea they could be heard beyond GA/SC. New owner as of 10/1. "Information Radio 1430 - WNFO" excellent over/under CJCL. (ES-NJ)
 1470 WWWM OH Toledo - 12/30 0400 Good briefly above noise with "Three W-M" ID. Never heard before. (DN-MD)
 1500 WKER NJ Pompton Lakes - 1/30 0738 Song "Sugar Pie Honey Bunch" then "Good morning, this is Rod ?? at AM 1500, WKER", a time check then an AC rock song. Up clearly in null of WTOP, WFIF and KSTP. (LK-ON)
 1550 WMDH IN New Castle - 12/30 0200 In and out with ID above pileup. CBE off for silent period. New here. (DN-MD)
 WARD PA Pittsburg - 12/28 0729 Good over/under usual CBE with talk format and ID. Never heard before. (DN-MD)
 WBSC SC Bennettsville - 1/12 0502 Good over/under CBE with pleasant oldies format, lots of Motown. Never heard here before. (DN-MD)
 WTYR TN Soddy-Daisy - 1/27 0111 In good after the WSMI test with "Five of the greatest oldies in a row on all oldies 1550, WTYR". Doing well with 11 watts. (JK-VA)
 1570 CKLM PQ Montreal - Fair to good over other UNIDs with FF programming. (JK-VA)
 1590 WGGO NY Salamanca - 12/28 0712 Poor in pile with ID. New here. (DN-MD)

0800 to 1600 ELT

760 WVNE MA Leicester - 1/28 1555-1600 "WVNE Leicester-Worcester" at 1600, Bob Larson Talk Back show. (ES-NJ)
 1040 WSKE PA Everett - 1/27 1550-1605 "WSKE" jingles, ABC news. (ES-NJ)
 1470 WHRD WV Huntington - 2/2 0823 TIS info mentioning ski resorts including Cranberry?, and I-77. (DB-DE)

U102-FM • WJJS-AM

P.O. BOX 6440
 LYNCHBURG, VA 24505

1600 TO 2400 ELT

540 WWCS PA Canonsburg - 1/28 2020-2026 "WWCS AM Stereo", also "540 AM Stereo Canonsburg-Pittsburgh" fair under WGTO. (ES-NJ)
 660 WESC SC Greenville - 1/30 1616 Tentative. CW music under a strong WFAN, up and over at times. Not clear enough to get a call ID but it is the only real candidate. Looped SE/NW. This is the first signal to ever even try to compete with WFAN here. (LK*ON)
 790 WWBD SC Bamberg-Denmark - 12/30 2155 Loud, no sign of WTAR, with easy CW and "WWBD AM-790 Bamberg-Denmark". Good for 100 watts. New here. (JK-VA)
 860 WEVA VA Emporia - 1/28 1715:15 Sign-off announcement under WTEL, fair. (ES-NJ)
 1040 WHO IA Des Moines - 1/30 2300 Good with Talknet and ABC news through strong UNID open carrier. (BC-NH)
 WSGH NC Lewisville - 1/28 1630-1645 Gospel music, "The Delta Giant", weather, traffic, excellent on peaks. (ES-NJ)
 WQBB TN Powell - 1/28 1720 "Tennessee's easy-listening Q-104" weak under WSGH. (ES-NJ)
 1070 WINA VA Charlottesville - 1/30 1630 Adult rock song, call ID then into "If I Could Change the Way". Fade in null of a very strong CBA. (LK-ON)
 1180 WMYT NC Carolina Beach - 2/2 1655-1705 "WMYT Mighty 1180", *Voice of Prophecy* program. 1705 "WMYT Carolina Beach-Wilmington". (ES-NJ)
 1200 WCHB MI Taylor - 1/27 1705-1715 "Detroit's Voice of Progress", news-talk. (ES-NJ)
 1220 WRIB RI Providence - 1/28 2301 Fair with SS merengue, "Radio Musical" IDs, over/under CKCW/CFVM. (BC-NH)
 1240 WRTA PA Altoona - 1/21 1900 Mention of auto race, ID by male, fair atop graveyard pile. (WPT-DC)
 1260 WBNR NY Beacon - 1/26 1615 Oldies song then "the WBNR weather is..." and into another oldies song. Clear under WEZE talk show. (LK-ON)
 1270 WMKT MI Charlevoix - 1/25 1700 On hour ID as "Business Radio, WMKT, Charlevoix-Traverse City" then into news. Clear in null of WXYT. (LK-ON)

- 1280 **WHVR** **PA Hanover** - 1/26 1641 Oldies song then jingle ID, weather and another oldies song. Under CJMS and CKCV and in their partial null. (LK-ON)
- 1290 **WJBR** **DE Wilmington** - 1/26 1630 End of an oldies song, ad for a program "right here on WJBR" and into a Rod Stewart song. Fade under WKNE and WBNF. (LK-ON)
- 1350 **WSLR** **OH Akron** - 1/28 2203 Fair with "Your favorite country music with your favorite country stars" promo, CW requests and dedications. (BC-NH)
- WOYK** **PA York** - 1/28 2214 Poor with ID and CW music, briefly over WSLR. (BC-NH)
- 1420 **WIMS** **IN Michigan City** - 1/25 1742 Tentative. ID sounded like "WIMS weather is..." up from the QRM soup and into a MOR rock song. Fade. (LK-ON)
- WCED** **PA DuBois** - 1/27 1607 Ad for Charles Regal Tax Consultants in DuBois, ID as "WCED, Classic 1420" and into an oldies song. Over/under WHK and WBSM with fade. (LK-ON)
- 1450 **WILM** **DE Wilmington** - 1/27 1640 Bubbled up with "WILM news time is 4:40" and back to a local news item. QRM and fade. (LK-ON)
- WFPG** **NJ Atlantic City** - 1/27 1647 Up clear as a bell with a GE ad, Atlantic City weather and "WFPG, Talk Radio 1450". This station IDs every two minutes! Don't we wish they all did! Fade in/out for some time. (LK-ON)
- 1460 **WRAD** **VA Radford** - 1/27 1710 Country song then "Your source for AM Stereo, 1460, WRAD" and another CW song. Over/under others including CJOY and CKRB. (LK-ON)
- 1520 **WWKB** **NY Buffalo** - 1/29 2206 With Howard Stern promo, Accuweather on "The Big One - KB Radio 1520", and Sports By-Line talk, over an UNID SS station that's been trying to break through the past few nights. (BC-NH) (Bruce, try to stay with this past 2400, WWKB seems to be going off regularly - db)
- 1540 **KXEL** **IA Waterloo** - 1/9 1948 Weak with US Savings Bonds PSA, weather and CW music, under CHIN in WPTR null. (BC-NH)

OTHER STUFF

- 4770 **WSMN** **NH Nashua** - 1/28 2130 Good with 3rd harmonic, causing strong het on Radio Centinela del Sur 4770.8 Ecuador. Harmonic also reported by Maine SWL in 2/93 *Monitoring Times*. (BC-NH)

REPORTERS

- BC-NH** Bruce Conti, Nashua, NH: R70, DX400, MWDX-5, 2-60 ft. wires
- LK-ON** Laurence Kearley, Orleans, ON: Sony ICF-SW1, Palomar Loop
- LK*ON** Laurence Kearley, Orleans, ON: Superadio II, Select-a-tenna
- JK-VA** Jeff Kitz, Powhatan, VA: Sony CFM-140II AM/FM/Cassette, 100% barefoot
- DN-MD** Dave Norment, Germantown, MD: Kenwood TS-140S, Sony ICF-2010, Alpha Delta DX-SWL Sloper or Vertical
- ES-NJ** Elliot Straus, Toms River, NJ: TRF (waiting for my R-390)
- WPT-DC** Bill Townshend, Washington, DC: Sony ICF-2010
- DB-DE** Dave Braun, Wyoming, DE: R-2000, Palomar Loop

How to place mail orders ...

Write to NRC Publications - P. O. Box 164 - Mannsville, NY 13661-0164. Enclose check or money order; NY residents, add state and local taxes. Please allow 3-6 weeks for shipping.



AM Station Map Book, 2nd ed.

\$8.00, postpaid.

Edited by DDXD editor Bill Hale, this book is a companion to the AM Radio Log. Now easier to read than ever, the 170-page book is three-hole punched for a ring binder. Data is accurate as of 2-1-93, and updates of individual pages will be available at a nominal cost when a sufficient number of changes have occurred. Order from NRC Publications - Box 164 - Mannsville, NY 13661. NY orders, please add sales tax.

International DX Digest

Foreign DX Catches. Times are UTC; for ELT, subtract 5 hrs.

Not much time for listening these days, and, when I have, the conditions have been poor. I don't often observe weather related DX phenomena, but tonight (2/5) I observed that nearly everything to the west of me was unusually weakened, with Chicago totally inaudible (allowing for a new log of CFDR-780). Within about 30 minutes a cold arctic blast rolled through, presumably from the northwest.

Jim

PAN-AMERICAN DX

- 540t **MEXICO XEWA**, Monterrey, 1/31 0740 - Extremely weak with Spanish talk and music, mixing with an unID sports station under CBEF/CJSB. [BC-NH]
- 570 **MEXICO XEJB** Monterrey NL, 1/15 1110-1114 - With mix of ranchera and romantic music. Mentions of Monterrey and San Nicolas (a suburb). Fair in WKYX null. [DHM-IA]
- 580 **MEXICO Reynosa**, Tamaulipas, 1/13 1210-1218 - With ranchera music, ID as "XEFD, La Consentida". Fair. [DHM-IA]
- 660 **MEXICO R. 660**, Mexico City, 1/28 0354 - Thanks to Paul Swearingen's Mexico City travel logs, I am going to count this tentative log of a few weeks ago as XERIN. Heard again tonight with a clear slogan during a pause in WFAN's program. [JR-NY]
- 730 **MEXICO XEX**, Mexico City, 1/31 0710 - Weak with "la música contemporana Mexicana", cumbia and U. S. hits, mention of San Antonio and Los Angeles. [BC-NH]
- 760 **CUBA R. Reloj**, 1/31 0637 - Weak under WJR. [BC-NH]
- 940 **CUBA R. Reloj**, 1/31 0450-0530 - Fair with usual clock, "RR" Morse code IDs, and news, mostly under XEQ. [BC-NH]
- 940 **MEXICO XEQ** Mexico, 1/31 0450-0530 - Fair-to-good with Mexican corrido/ranchera vocals and instrumentals, ad for Ricardo Montoner "un nuevo disco es para ti", and local ads, ID at 0529, "XEQ radio, transmite de 940", over R. Reloj in CBM null. [BC-NH]

Jim Renfrew

61 Wilcox Street

Rochester, NY 14607-3832

- 950 **CUBA CMDG Sancti Spiritus**, 1/18 0747 - Metronome pips of R. Reloj, fair-poor under WPEN (I was shooting for KXTC). [WPT-DC]
- 1024.5 **COSTA RICA San José**, 1/19 0145-0231 - With romantic ballads, frequent IDs as "Mil Veinte". Occasional ads, finally one with a mention of being in San José. Poor with splatter from 1020/1030. Not noted here since, although I haven't checked very much. [DHM-IA] (Perhaps the unID logged by others recently - Jim)
- 1080 **VENEZUELA UNID** 2/5 2326 - Strong in WTIC null for a bit, with fast-talking sports announcer (sure didn't sound like baseball), and mention of "Valencia". There are stations in Maracay (near Valencia, but not yet logged) and Barcelona (previously logged). [JR-NY]
- 1210 **CUBA CMGL Sancti Spiritus**, 1/18 0138 - LA music, Spanish talk. Fair while WOGL faded out. [WPT-DC]
- 1520 **UNID** 2/7 0710-0759 - In an out of WVOI with WWKB off the air, mostly LA music with "el eco ... stereo" slogan heard at 0710 and "el eco ... guapo" heard at 0759, then the signal never returned. The "guapo" may be wishful thinking, but it could be Venezuela. [JR-NY]

HARMONICS

- 2320 **GUATEMALA R. Izabal**, Morales (2 x 1160), 1/28 1201-1226 fade - with s/on announcements and ID, into evangelical sermon. Fair signal, heard day before around fade time, too, but without ID. When I lived in Honduras I used to hear their harmonic all the time, but there I could also get their fundamental, even in daytime. [DHM-IA]



3041 COLOMBIA UNID, 1/22 1005-1058 fade - Ranchera music, man with announcements, several time announcements as "en Colombia". Possible ID as "La Voz de la Frontera", but doesn't match any WRTH 1520 stations, none of which is even near to a border. Only traces of audio since. [DHM-IA]

Don speaks: I continue to hear Ecuadorian harmonic R. Francisco Orellana on 2060 rarely in evenings and Guatemalan La Voz de los Cuchumatanes 2100 more often in mornings with 1100 s/on.

STATION NEWS

MEXICO: R. Mil, long inactive on SW 6010

kHz has been very active the past few weeks. Often on all night, and if not, s/on by 1000 UTC. Night time signal is good-excellent and should be heard on any SW receiver. This, of course, is parallel to 1000 kHz MW, often heard here under WLUP. [DHM-IA]

CONTRIBUTORS

[DHM-IA] Don Moore, Davenport IA; R-5000, Sony ICF-2010 with 400' mini-beverage, 150' L, Radio west ferrite loop.

[WPT-DC] Bill Townshend, Washington DC; Sony ICF-2010.

[JR-NY] Jim Renfrew, Rochester NY; ICF-2010, Radio West Loop.

[BC-NH] Bruce Conti, Nashua NH; R70, DX400, MWDX-5, 2 x 60' wires.

Geomagnetic Summary

High "A" values indicate possible auroral conditions

Phil Bytheway
9705 Mary NW
Seattle, WA 98117-2334

Date	FLUX	A	K	SA	GEO	ETC
1/ 8	133	7	3	very low	quiet-unsettled	-
9	129	13	4	very low	unsettled	-
10	132	24	0	low	quiet-mas	-
11	132	15	2	low	quiet-mis	-
12	140	6	1	low	quiet	-
13	141	8	3	low	quiet-active	-
14	133	15	2	low	unsettled	-
15	126	12	2	low	unsettled-active	-
16	133	5	4	low	quiet	-
17	126	13	2	low	active-quiet	-
18	122	6	3	low	quiet-unsettled	-
19	116	15	2	very low	unsettled	-
20	110	10	1	very low	quiet-unsettled	-
21	107	4	2	very low	quiet	-
22	104	4	1	very low	quiet	-
23	106	2	1	very low	quiet	-
24	105	8	0	very low	quiet	-
25	106	16	4	very low	quiet-active	-
26	107	21	3	very low	quiet-active	-
27	111	8	1	low	quiet-unsettled	-
28	112	7	1	very low	quiet-unsettled	-
29	114	5	2	very low	quiet-active	-
30	113	10	4	very low	quite-unsettled	-
1/31	119	40	4	moderate	active-mas	mis 0900
2/ 1	125	21	4	moderate	unsettled-active	swa
2	128	14	3	low	quiet-unsettled	swa
2/ 3	137	6	2	low	quiet-unsettled	swa

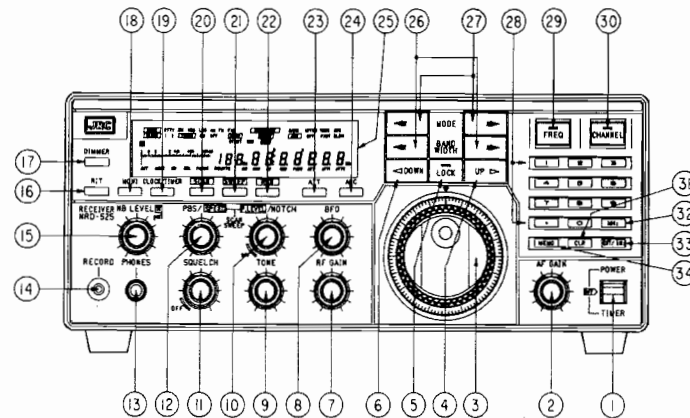
GEO geomagnetic activity
maf major flare
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SA solar activity
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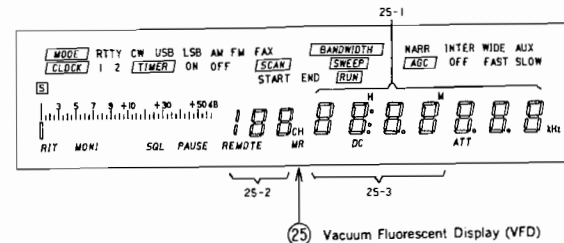
NRD-525: A Technical Review ... by Dallas Lankford

There have been a number of reviews of the NRD-525 in the past, but none of them answered certain technical questions I had regarding 525 performance, especially in the MW band. The 525 was discontinued last summer, and the remaining stock was offered at a discount by several retailers. Not being able to resist a bargain, I bought one of these last 525's with a serial number in the high 51,000's. Line drawings of the 525 front panel and vacuum fluorescent display are given below.



Front panel

- 1 POWER TIMER ON/OFF switch
- 2 AF GAIN control
- 3 TUNING control (This control also works as RIT control when characters "RIT" are on)
- 4 UP switch
- 5 LOCK switch
- 6 DOWN switch
- 7 RF GAIN control
- 8 BFO control
- 9 TONE control
- 10 NOTCH control (It also works as P LEVEL (pause level) control during scan or sweep reception.)
- 11 SQUELCH control
- 12 PBS (pass band shift) (It also works as the SPEED control during scan or sweep reception.)
- 13 PHONES jack
- 14 RECORD jack
- 15 NB LEVEL (noise blanker level) control
- 16 RIT switch
- 17 DIMMER switch
- 18 MONI (monitor) switch
- 19 CLOCK TIMER switch
- 20 SCAN switch
- 21 SWEEP switch
- 22 RUN switch
- 23 ATT (attenuator) switch
- 24 AGC control
- 25 Vacuum Fluorescent Display (VFD)
- 26 BANDWIDTH switch
- 27 MODE switch
- 28 Numerical keys
- 29 FREQ (frequency) switch
- 30 CHANNEL switch
- 31 CLR (clear) switch
- 32 MHz switch
- 33 ENT kHz switch
- 34 MEMO (memory) switch



Previous reviews of the NRD-525 include Magne's RDI white paper, Edition 2.0, 11 June 1987 (presumably there was an earlier review), the 1987 WRTH, pages 555-556, Rainer Lichte's review in his 1987 book *More Radio Receiver - Chance Or Choice*, pages 41-48, and John Bryant's *Proceedings 1989* review, "Wastegunner on a 525," pages R12.1-R12.9. Because these reviews cover most basic aspects of a 525, my discussion of basic features will be brief in places. For additional details you may consult those sources.

The front panel and vacuum fluorescent display line drawings above tell most of the story about the basic 525 features. Some controls are conventional analog controls, while some are push button switches. Other reviewers have fussed about certain aspects of the controls, but I haven't been seriously annoyed by any of these so-called defects. Yes, it would be nice to have an analog S-meter. But the main reason the S-meter jumps around so much in AM mode is because the AM attack times are not appropriate. My mod described in "NRD-525 AM AGC mod 2" takes care of this annoying defect. And yes, it would be nice if the front of the 525 could be tilted upward to get a better view of the front panel and keep your hand from bumping the table top while twirling the main tuning knob. Nevertheless, the flywheel-weighted, dimpled main tuning knob turns smoothly and is easy to use. Mode changing is easy with two switches which move the mode indication left or right through the following: RTTY CW USB LSB AM FM FAX. By contrast, with the R8 you have to cycle completely through all other modes to get back to the one you want. Similarly, bandwidth changing is easy with two switches which move the bandwidth indication left or right through NARR INTER WIDE AUX. Changing the AGC setting is not as convenient; a single switch cycles through OFF FAST SLOW. In addition to tuning with the main tuning knob, a frequency can be entered either in KHz or MHz using the keypad, and the frequency can be changed with the UP and DOWN switches.

Some operating aspects of the 525 can be changed by the user. The tuning rate of the main tuning knob and the step increment of the UP and DOWN switches can be changed between "coarse" and "fine" by pressing the RUN switch. In "fine" tuning mode, the main tuning knob rate is 2 KHz per revolution and the UP/DOWN increment is 1 KHz, while in "coarse" tuning mode the rate/increment is 20 KHz/10 KHz. The 10 Hz digit of the frequency display can be turned "off" and "on" by pressing MEMO and 1 switches simultaneously. And the frequency indication in USB and LSB modes can be changed between "automatic" and "manual" modes by pressing MEMO and 0 switches simultaneously. In "automatic" mode the frequency display does not change when changing between USB and LSB (and you do not have to retune).

The NRD-525 Instruction Manual gives the tuning range as 90 KHz to 34 MHz. The 525 can be tuned below 90 KHz, but internally generated noise begins to register on the S-meter at about 70 KHz, so the 525 is not useful much below 90 KHz. VLF DXers will need to use a VLF converter.

In the past, the merit of a receiver was often determined by the three S's - sensitivity, selectivity, and stability. With synthesized solid state receivers like the 525, stability is seldom an issue. Consequently, a more appropriate modern version of the three S's is sensitivity, selectivity, and spurious responses. Nevertheless, for completeness, here is what has been published about 525 stability. The instruction manual specifies "Frequency stability ± 3 PPM." Lichte measured " ± 5 Hz/hr," while Magne reported "less than ± 10 Hz at 10 MHz, excellent." I don't have the equipment to make such precise drift measurements. Suffice it to say that I haven't observed any drift with the 525's I have used, and I don't expect to observe any.

Sensitivity should not be an issue for modern solid state communications receivers, but surprisingly it sometimes is. Some receivers, like the R-5000, are desensitized in the MW band by design. Others, like the R8, are not quite sensitive enough throughout the entire tuning range. Both Magne and Lichte stated that the 525 sensitivity is derated in the MW band. Lichte even provided values of 16 and 19 microvolts at 1000 and 500 KHz respectively for a 10 dB S+N/N using the WIDE bandwidth and AM mode, compared to 2 microvolts for the SW bands. In addition, the 525 instruction manual specifies 15 microvolts or better sensitivity for the 0.90-1.6 MHz frequency range, and 2 microvolts or better for the 1.6-34 MHz frequency range using AM mode. However, I do not know of any 525 with worse sensitivity below 1.6 MHz than above. As a matter of fact, the sensitivity of my 525 is about 0.35 microvolts throughout the MW band for a 10 dB S+N/N using WIDE bandwidth and AM mode, with a 400 Hz modulated source at 50% modulation. The WIDE bandwidth AM sensitivity of my 525 on the SW bands is not quite as good, about 0.45 microvolts, but still excellent. Perhaps some early production 525's were desensitized by design in the MW band. But that appears not to be the case for most 525's. The 525 is one of the few solid state receivers with adequate MW band sensitivity at locations like mine with low levels of man-made noise.

Selectivity should also not be an issue for modern solid state communications receivers, but again it sometimes is. Insufficient number of bandwidths, and inappropriate bandwidths are the common defects. The 525 design is excellent with regard to available bandwidths because it has four available bandwidths which are selectable independent of mode. A 525 comes with three selectivities - AUX, WIDE, and INTER. A fourth bandwidth is available in the NARR position when an optional filter is installed. Unfortunately, no suitable AM filter is currently available for the fourth position. So you have to make do with the three stock bandwidths. The instruction manual specifies the AUX, WIDE,

and INTER 6 dB/60 dB bandwidths as 12 KHz or more/not specified, 4 KHz or more/10 KHz or less, and 2 KHz or more/6 KHz or less respectively. Typically the WIDE and INTER filter bandwidths are better than specs. For example, mine are 12 KHz/24 KHz, 5.9 KHz/8.3 KHz, and 2.4 KHz/4.2 KHz respectively. These bandwidths are satisfactory for virtually all listening situations, though I would like a 3.0 KHz filter if one was available. In Magne's review it was said that ultimate filter rejection was limited to about 65 dB due to "cross coupling in the matching networks of the IF stage." However, in 525's I have tested, the ultimate rejection has been excellent, typically greater than 100 dB (the limit of my measuring method).

Measurement of ultimate filter rejection was complicated by what seem to be synthesizer noise sidebands and "blips" apparently due to synthesizer spikes. The "blips" were about 86 dB down on my 525 at about ± 10 KHz and ± 100 KHz from the primary synthesizer frequency in the MW band, and also at ± 200 KHz in the SW bands. Weaker "blips" greater than 94 dB down were observed at ± 200 , ± 300 KHz, etc. in the MW band and at ± 300 KHz, etc. in the SW bands. To conclusively demonstrate that the "blips" were not due to filter leakage, I injected a signal generator source at the junction of L103 and C19 on the CFH-36 IF FILTER UNIT PC board. Throughout most of the WIDE filter stopband, ultimate rejection was greater than 100 dB (the limit of my test equipment). Only at one point, about 510 KHz, was the ultimate rejection measurable at about 100 dB down.

These synthesizer "blips" and noise sidebands can produce unexpected spurious responses where there should be none. Here is how. Let's say you have a super local on 1520 KHz and you tune to 1620 KHz. The -100 KHz synthesizer "blip" mixes with the super local on 1520 KHz at the first mixer before any significant selectivity and produces a phantom copy of your super local where it should not appear. I don't have a super local close enough to the edge of the MW band to observe this phenomenon on the 525.

Spurious responses due to synthesizer "blips" are not an idle concern. For example, some of the spurious responses I have observed on a Drake R8 are due to synthesizer "blips". Using a signal generator, I determined that when an R8 is tuned to 1490.00 KHz there are synthesizer blips about 85 dB down at 1649.0 and 1849.0 KHz, and a somewhat weaker "blip" at 1759.4 KHz. Sure enough, there was my super local KRUS in the noise at 1649.0 and 1849.0 KHz. The 1759.4 KHz spur could not be observed because of a stronger navigation signal on about 1760 KHz. Previously I had overlooked the 1849.0 KRUS spur because of a 3rd order IMD product on 1850.0 KHz (KRUS+KWKH/2x1490-1130). And I hadn't noticed the 1649.0 KRUS spur, perhaps because man-made noise levels were not low enough on previous spur searches. I have not done a thorough study of the R8 synthesizer "blips", but they appear to occur about ± 50 KHz from the primary synthesizer frequency, and at approximately multiples of 100 KHz thereafter. For example, with a signal generator set at 1100 KHz, R8 "blips" were observed at 1153.8, 1253.6, 1352.8, 1453.6, etc. and at 953.8, 853.6 KHz etc.

To measure the levels of spurious responses due to synthesizer "blips" I used a calibrated signal generator with a precision attenuator. The receiver S-meter was first calibrated using the signal generator connected to the receiver antenna input terminal. Then the signal generator was set to a particular frequency, say 1490.00 KHz, and the signal generator output was set for maximum, say 100,000 microvolts. The receiver was tuned above and below the signal generator frequency, and the frequencies and levels of any "blips" were noted. Thus, when I said that "blips" about 85 dB down were noted at 1649.0 and 1849.0 KHz on the R8, what I meant was that S-meter readings equivalent to 85 dB below 100,000 microvolts were observed. The actual synthesizer "blips" themselves were not observed, only their effect, namely the mixing of a strong nearby signal with a synthesizer "blip" to produce a phantom signal where there should be none. This method of measurement simulates precisely what happens in an actual listening situation with an antenna connected.

The NRD-525 produces fewer spurs due to synthesizer "blips" than the R8 because the 525 uses double tuned circuits ahead of the first RF amp which automatically track the received frequency, while the R8 uses switched broadband front end filters. At MW frequencies the 525 is unlikely to produce observable spurs beyond the first pair of synthesizer "blips" ± 100 KHz, and the spurs are unlikely to be observable except in the 1610-1700 KHz and 440-530 KHz frequency ranges. The R8 is also unlikely to produce observable spurs due to synthesizer "blips" within the MW band, but clearly does produce multiple observable spurs for 100's of KHz above the MW band and perhaps below the MW band when used with a rather ordinary wire antenna. I don't know if SW signals levels are high enough to cause observable spurs due to synthesizer "blips" on the 525 or R8. If they are, then the 525 might produce such spurs at ± 100 , ± 200 , and ± 300 KHz from a strong SW broadcaster, and the R8 might produce such spurs up to several MHz away from a strong SW broadcaster. Such spurs are much more difficult to identify

at SW frequencies in actual DXing situations because of the transient nature of SW signals due to fading. But it wouldn't surprise me if many SW DXers have chased weak hets which are actually spurs due to synthesizer "blips", especially on R8's and other broadband front end receivers, and perhaps even on 525's.

In addition to spurious responses due to synthesizer "blips" which follow you as you tune around, a 525 also has fixed internally generated spurs. These can be most easily observed by tuning the 525 in USB or LSB modes with no antenna connected. On my 525 there is an S-4 spur at 100 KHz, and weaker spurs about every 100 KHz throughout the entire tuning range. Many of these spurs can be detected with an antenna connected, at least at my location (which has low levels of man-made noise) with a noise reducing antenna (which further reduces man-made noise), provided no received signal is present on the frequency. However, none of these spurs have been observed as a bet on a MW band signal, perhaps because these spurs are almost exact multiples of 100 KHz, and are quite weak. There are also some irregular spurs in the MW band on my 525: 548.6, 617, 958, 1026, 1229, 1520, 1523.3, 1524, 1534, 1539.3, and 1560 KHz. None of these irregular spurs have been observed as hets on MW signals, perhaps because they are so weak, or perhaps because I do not have the right combination of suitably weak MW signals on adjacent channels. Both regular and irregular SW spurs are observed when atmospheric and man-made noise are low.

Besides these unconventional spurs which were virtually unheard of before synthesized receivers, the 525 can produce phantom signals via conventional images of the 455 KHz IF, at least in principle. Magne gave the measured 455 KHz image rejection of a typical 525 as 82 dB, while Lichte gave 72 dB. Both are correct. It depends on the frequency at which you measure the 455 KHz image rejection. For my 525, the 580 KHz image rejection of 1490 KHz is about 100 dB, the 1090 KHz image rejection of 2000 KHz is about 90 dB, the 9.090 MHz image rejection of 10.000 MHz is 86 dB, and the 19.090 MHz image rejection of 20.000 MHz is 74 dB. Since signal levels tend to decrease as frequency increases, the 525 decreasing 455 KHz image rejection decreases in the right way. Overall, the 525 455 KHz image rejection is excellent, though not quite as good as the image rejection of an R-390A (455 KHz image rejection in excess of 100 dB at all frequencies, 2-3 MHz variable IF image rejection varies from 76 dB at 20 MHz to 90 dB at 10 MHz, and below 8 MHz all images are down in excess of 100 dB). It is unlikely that I will observe any images on a 525 in an actual listening situation.

The final way that phantom signals can enter a 525 is as intermodulation distortion (IMD) products, both 2nd and 3rd order. When I measured the 3rd order intercept (ICP3) of my 525 at 1100 and 1120 KHz and got -4dBm for the WIDE bandwidth and AM mode, at first I was disappointed. But then I remembered that an R-390A ICP3 is typically -12 dBm, and yet I have never heard any 3rd order IMD products on an R-390A in an actual listening situation. Also, an R8 typically has +5 dBm ICP3, yet 3rd order IMD products are routinely heard on an R8 in actual listening situations (with an antenna connected). For example, I routinely hear the 3rd order product of KWKH 1130 KHz and KRUS 1490KHz at 1850 KHz during the daytime, and numerous 3rd order products of MW signals at night above 1600 KHz on an R8. And in his RDI white paper review of the R8 Magne observed, "... our tests have unearthed intermodulation and cross-modulation products between 0.1 and 3.0 MHz when the R8 is connected to a 160 meter 'super antenna' in an area having strong local mediumwave AM signals." What was going on? The answer was quite simple. ICP3's are measured at 20 KHz tone (signal) spacing unless otherwise stated, yet 3rd order IMD heard on a receiver in an actual listening situation invariably results from much wider spaced signals. When the ICP3's of an R8, R-390A, and NRD-525 were measured at wider tone spacings, a much different picture emerged. For example, with tones at 1130 KHz and 1490 KHz, the 1850 KHz (2x1490 - 1130) ICP3's were +8.5 dBm, +15.5 dBm, and +17 dBm respectively for the R8, 390A, and 525, and the corresponding 3rd order dynamic ranges (DR3's) were 87 dB, 96 dB, and 100 dB respectively. Like the 390A, the 525 has a tuned front end which tracks the received frequency, and they have similar wide spaced ICP3's and DR3's. The R8 with a broadband front end comes in a distant third. This explains why one routinely hears 3rd order IMD products on an R8, but not on an R-390A or NRD-525.

The 5, 10, 20, 40, and 80 KHz spacing ICP3's of my 525 at about 1100 KHz using the WIDE filter and AM mode, with 400 Hz modulated source at 50% modulation were -29 dBm, -13 dBm, -4 dBm, +2 dBm and +2 dBm respectively. At about 9 MHz the ICP3's were -24 dBm, -1 dBm, +2 dBm, +12.5 dBm, and +12.5 dBm respectively. As Denzil Wright pointed out to me (in personal communications) the close-in ICP3's of an NRD-525 are determined by the 70.455 MHz IF amp and 2nd mixer. The 525 first IF filter at 70.455 MHz typically has a 6 dB bandwidth of about 15 KHz and a 60 dB bandwidth of about 70 KHz. As can be seen from the ICP3 measurements above, when at least one of two strong nearby signals is completely outside the first IF filter passband (more than 35 KHz away from the received signal), the 525 ICP3 is determined almost entirely by the RF amp and first

mixer, and is outstanding. And as Denzil has pointed out (in his recent article "More On Modifications For The NRD-525," draft 20193), the 5 KHz spacing ICP3 of a 525 can be improved to about -3 dBm by removing gain from in front of the 2nd mixer and adding it again afterwards, while reducing sensitivity 4 dB. This increases the 5 KHz spacing DR3 by about 8 dB. However, we both agree that there does not seem to be any practical need for such high close-in ICP3's. But if you are determined to try to improve the ICP3's of your NRD-525, you should consult Denzil's article (mentioned above) to learn what has been proposed and works, what has been proposed and doesn't work, and the trade-offs for the mods that work.

Receiver manufacturers seldom specify 2nd order IMD performance. Yet 2nd order IMD products are routinely observed on some receivers in actual listening situations, like on an R8 in the 15.6 - 15.8 MHz range during the early evening hours. These 2nd order products are due to strong SW broadcasters in the 31 and 49 meter bands (e.g., 6.1 + 9.6 = 15.7 MHz). The 15 MHz ICP3's due to 6 and 9 MHz tones were +49 dBm, greater than +64 dBm, and greater than +67 dBm for the R8, 390A, and 525 respectively, and the corresponding DR2's were 84dB, greater than 96.5 dB, and greater than 100 dB respectively. Again, the 525 edged out the 390A, and the R8 finished a distant third. ICP2's and DR2's within the MW band were not as high for any of the receivers. For example, the 1320 KHz DR2's due to 600 and 720 KHz tones were 80 dB, 86 dB, and 91 dB respectively.

"All so called 'specialists' take note: Here at last is a receiver which is a match to their beloved monster Collins R390A/URR." Thus said Rainer Lichte. It is close, but not quite there. While the 525 edges the 390A in a few important categories like wide dynamic range, the R-390A edges the 525 in other important categories like spurious responses. And the 390A does not generate any display noise which can be received by a nearby MW loop antenna. Were it not for the 525 display noise problem, I would be more inclined to agree with Lichte. But below 1200 KHz the 525 display noise becomes observable above ambient man-made noise at my quiet location, and is very annoying at the low end of the MW band on weaker daytime signals using my 2 foot air core balun loop with amp. At night, however, I haven't noticed any display noise because of greater signal levels, even when using my LIL-4 phasing adapter to combine loop and noise reducing wire antennas for cardioid patterns. So the 525 display noise problem is not as bad as I expected it to be (based on other reports). But I have also heard that the amount of display noise generated by a 525 varies from one 525 to another, so perhaps I have a "tame" 525 in that regard. The 525 display noise is much worse when one uses an amplified ferrite rod MW loop. A ferrite rod loop must be moved further away from a 525 than an air core loop to reduce 525 display noise to an acceptable level. Maybe this accounts for the variation of opinion as to the severity of the 525 display noise problem. Another area where the 390A edges the 525 is AGC performance. The 525 AGC has several annoying characteristics due mainly to inappropriate AM mode attack time constants. Static crashes and noise pulses cause the 525 AGC to "hang," which briefly desensitizes the 525. And at high signal levels the instantaneous fast attack and fast release of the 525 causes low frequency audio distortion on AM signals. Fortunately, these 525 AGC defects can be greatly reduced as described in my article, "NRD-525 AM AGC Mod 2," by replacing R104 with a 220K ohm surface mount resistor, adding a 22K 1/4 watt resistor from pin 2 of IC7 to pin 4 of IC8, and adding a jumper from pin 3 of IC8 to pin 3 of IC9. This mod greatly increases the AM mode attack time constant, which eliminates AM audio distortion due to audio on the AGC line, and greatly reduces AGC "hanging" due to static crashes and noise pulses in AM mode. Also, my 525 does not extract as much signal from my noise reducing vertical antenna at the low frequency end of the MW band as a 390A. The difference is about 6 dB. Perhaps it is due to the reflected capacitance of the zip cord twin-lead detuning the 525 front end. The 525 does not have an antenna trimmer, which would help in analyzing and eliminating problems like this. However, I have not yet heard a signal at the low end of the MW band on a 390A that was not equally audible on a 525. Curiously, a 525 overloads when signals greater than about 50,000 microvolts are applied to the antenna input. This is unlikely to be a problem for most 525 users unless they use antennas which develop excessive signal levels, or have extremely high RF environments. Overload appears to occur first at the 2nd mixer, but the 1st, 2nd, and 3rd 455 KHz IF amps may also be involved. At present I do not have a solution for the overload. Finally, although I haven't found it much of a problem, many people have complained about the 525 digital S-meter jumping around all over the place. I do agree, however, that an analog S-meter would be an improvement.

Of course, an NRD-525 has a number of advantages over an R-390A: it can be carried around the house easily and on DXpeditions, it can be powered from two 6 volt lantern batteries, you can jump from one frequency to another much quicker, you have available 200 programmable memories which permit even faster frequency jumping, and you don't have to fix it yourself if something goes wrong with it.

Formats

Changes in programming status; reported by listeners

Tony Fitzherbert
356 Jackman Avenue
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Bill Alisaukas, of Douglasville, GA, writes that Atlanta's 50,000 watt WGUN - 1010, long carrying religion, is dropping its format in favor of all talk on 3/1/93. Interesting in that Atlanta has a preponderance of religious outlets, and WGUN is the most powerful of the lot. Part of the new WGUN offering will be Larry King's afternoon show. He also adds that WDCY - 1520, of Douglasville, GA was bought by the Kingsway Baptist Church on January 6. The new owner promptly fired all of the on air staff, of which Bill was one! And WDCY is, of course, airing religion.

Another gospel and urban contemporary institution, WCHB-1200, in Taylor, MI, has dumped its format in favor of all talk. WCHB had one of the finest gospel music radio programs in the entire country.

And another oddity of the airwaves, WNOP-730, Newport, KY dropped its long standing jazz format for Unis CNN Headline News. I hope that the fine folks there several years ago when I visited their studios - three floating former gasoline tanks in the middle of the Ohio River, all found jobs elsewhere.

On a bizarre note, WITH-1230, Baltimore, WNTR-1050, Silver Spring, and WPRW-1460, Manassas, VA are going after the last untapped market in the US with CSN pre teen programming. They will form a regional network for children.

Locally, WICC-600, Fairfield County's big full service station has fired afternoon announcer Jim Buchanan (who had been there for years), and replaced him with Larry King. The big draw left on this former pillar of reliability is morning host John LaBarca teamed with veteran news person Tim Quinn.

Bringing you this edition of Formats is Eugene Hunter of Porterville, CA, first time contributor Bill Alisaukas, the M Street Journal, and your editor, who is managing to enjoy some rather good DX'ing. And here is the usually litany of satellite programming fed into deserted studios and silver throated announcers broadcasting from afar. Jim Guthrie said it best...now one can run a radio station with only the owner, a sales person, and a secretary. What happened to the sound effects people, the studio orchestra, the news team, etc, and the distinctly local flavor?

540	WJQI	CA	Costa Mesa	- Standards//KGIL (M).
580	WELO	MS	Tupelo	- Unis standards, talk (M).
700	KQKE	CA	Soledad	- Country music//FM (M).
770	WZEL	GA	Young Harris	- Still country music (BA).
830	WADU	LA	Norco	- Spanish AC (M).
850	WAIT	IL	Crystal Lake	- Now SMN Adult standards (M).
890	KVOZ	TX	Larado	- Spanish religion//KUBR(M).
950	WROL	MA	Boston	- Spanish at night (TF).
960	KCLL	CA	Lonpac	- SMN oldies "Kool 96" (M).
960	WNNN	FL	Pompano Beach	- Adds IBN talk to its motivational glop (TF from M).
990	WTIG	OH	Massillon	- Sports, talk (M).
990	WALE	RI	Providence	- An assortment of doctors, lawyers, realtors, and others who broker time and dispense advise on everything from tooth care to digestive care on this 50,000 watt, 6 tower powerhouse (TF).
1010	KDLA	LA	De Ridder	- EFM, IBN Talk (M).
1040	KURS	CA	San Diego	- New station, Spanish (M).
1060	WPMX	MS	Tupelo	- Talk (M).
1070	WNCT	NC	Greenville	- All talk (M).
1110	WKDZ	KY	Cadiz	- IBN Talk (M).
1120	WCGM	TN	Maryville	- Urban "1120 Jams" (M).
1150	KAGO	OR	Klamath Falls	- All talk, CBS, Daynet, Talknet, IBN (M).
1170	WJCC	MA	Norfolk	- IBN and Local talk "Discussion Radio" and "Talk of the Towns" (TF).
1180	WJJP	RI	Hope Valley	- Live assisted country music in what is perhaps the most enjoyable radio along I-95 between Boston and New York. The owner, wife, and son all work there! (TF).
1230	KRGO	CA	Fowler	- Spanish//790 KOQO (EH).
1230	KGEO	CA	Bakersfield	- All sports (EH).
1230	WAYX	GA	Waycross	- Adult standards (M).
1240	KNRY	CA	Monterey	- IBN, NTN Talk (M).
1240	WVOS	NY	Liberty	- Copuntry music//FM (M).
1260	KGIL	CA	San Fernando	- Standards (M).
1270	WTSN	NH	Dover	- All talk, INB talk (M).
1290	WATO	TN	Oak Ridge	- Urban//WCBM (M).

850AM WWJC
RADIO
1120 East McCuen Street
Duluth, MN 55808-2199

1310	WORC	MA	Worcester	- Oldies (TF).
1320	KHSJ	CA	Hemet	- All talk - IBN, USA, Talknet (M).
1330	WPPI	GA	Carrollton	- "Classic 1330 - live assisted 50's to 80's music (BA).
1330	WASA	MD	Havre de Grace	- Noted with classic country while DX'ing (TF).
1330	WZKC	OH	Campbell	- SEN Sports (M).
1340	KBOS	CA	Fresno	- News, talk (EH).
1340	KQIL	CO	Grand Junction	- SMN Oldies (M).
1370	WLOV	GA	Washington	- Religion//WRAP (M).
1380	WELE	FL	Ormond Beach	- IBN, FTP talk (M).
1410	WTIM	IL	Taylorville	- News, talk (M).
1430	KASI	IA	Ames	- Talk (M).
1430	WEMG	TN	Knoxville	- Urban//WCGM (M).
1450	WWTN	AL	Dothan	- News, talk (M).
1450	WKRI	RI	Warwick	- Adult standards and Spanish mid days (M).
1460	WIFI	NJ	Florence	- Gravitating toward conservative talk on 3/1 (M).
1470	WSRO	MA	Marlborough	- Live assisted adult standards with the announcers who happily sound as if they were the fellows who played this music when it was Top 40!! (TF).
1470	WRQQ	PA	Farell	- Sports//WZKC, billed as the "Valley Sports Network" (M).
1490	WAJF	AL	Decatur	- Talk days, CHR nights (M).
1490	WBEM	FL	Miami Beach	- Drops Black gospel for IBN talk!!! (M).
1490	WTUP	MS	Tupelo	- Talk (M).
1510	KNSE	CA	Ontario	- Regional Mexican (M).
1520	WRAI	PR	San Juan	- Spanish talk, standards (M).
1530	WWGZ	MI	Lapere	- Country gold (M).
1540	WRBN	VA	Richmond	- Contemporary Christian "Rejoice" (M).
1550	WMDH	IN	New Castle	- IBN Talk (M).
1550	WCHU	TN	Soddy Daisy	- Oldies - 50's to 80's (BA).
1570	KCVR	CA	Lodi	- All Spanish (M).
1590	KWBG	IA	Boone	- AC (M).
1590	WERA	NJ	Plainfield	- Noted several times with oldies while DX'ing (TF).
1590	WTOQ	WI	Plattsville	- IBN Talk (M).

Sunshine 720
WRZN
3988 N. Roscoe Road
Hernando, FL 32642

Well, all for now. Thanks very much to our contributors....and keep your contributions coming!!!

73's

Contests

Rick Dau
42 W. Court St., #401
Iowa City, IA 52246-0000
Promotion of the DX hobby through competitive listening.

Contest Standings as of Dec. 31, 1992

	A	B	C	D	E	F	G
Rob Kramer, Chicago, IL	2182	1087	80	210	805	0	0
Rick Dau, Iowa City, IA	1847	737	60	970	80	0	0
Earl Higgins, St. Louis, MO	1019	539	20	370	90	0	0
John Tudenham, Joplin, MO	371	331	0	40	0	0	0
Bill Hardy, Aberdeen, WA	188	138	20	10	20	0	0
Nancy Hardy, Aberdeen, WA	118	98	20	0	0	0	0

A = total points; B = level loggings; C = Most Wanted stations heard and reported to DDXD; D = other new stations; E = sign-ons & sign-offs; F = new stations on the air heard and reported to DDXD; G = stations coming back on after 3+ months of silence heard and reported to DDXD

Need to renew? Expired? The mailing label will tell you.

Musings of the Members

Dave Schmidt
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Thoughts from NRC members ... 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.

BRUCE REYNOLDS - 1617 CORTE DE MEDEA - SAN JOSE, CA 95124
- - - - - In my last MUSE, I overlooked one of my new catches, as on 1/16 KLOO-1340 was bagged at 4:19PM. They were in/out with an UNID carrying OR State BKB, ironically originating from Corvallis, home of KLOO. Anyone know which 1340 station is on the OR State net? The 1/18 DX NEWS made clear that KSUR-700 has indeed become KQKE. Two new ones on 1/23: KJJR-880 at 4:30PM in the null of KKMC & KPGE-1340 atop the channel w/ID & ABC News at 5PM. That is station #16 & state #6 (plus 1 Mexican) on my best GY. KKIC-950 made a rare appearance at the end of BYU BKB at 9:58PM. 1/24 (local), Morse code heard weakly through KTNN & KGPD presumed to be the KEYZ DX Test. Nothing else heard, tape sent. KAZM DX Test was in under KROW with marches, ID's and tones. Yet another format change to report, KBOS-1340 has dropped its simulcast with 'B95' FM and now has a talk format with Mutual news. Fine letter back from KACH-1340. I have received well over 1000 veries over the years but this is the first time a verie signer ever offered to take me out to lunch if I have a chance to visit! Now that's a friendly station!

ELLIOT STRAUS - 980 COOPER DRIVE - TOMS RIVER, NJ 08753
- - - - - Greetings fellow DXers. I've returned to the DX game after a 10 year hiatus, due to a series of apartments and I think I was DXed out after so many years at the dials. I'm 43 and started DXing in 1962 with a Hallicrafters S38E, moved to a Hallicrafters S85, an HQ180 and finally to a Collins R390A which is currently being overhauled as I update logs & shack in preparation for diving back into the hobby with vengeance. My totals are heard/verified: stations 1660/785, countries 72/31, states 45/41. Best domestic veries are probably WCVL & WCTW-1550 both 250 watts from IN. Best foreign veries: Radio Caroline-1520, Swan Island-1160, Vatican-1529. I had a great loop in the 70's which was built for me by Steve Bohac in N Jersey but it was destroyed in my many moves. Does anyone know how I can get in touch with Steve? I would also appreciate hearing from any members concerning loops that they have, preferably commercial and how they perform. I also have a satellite dish on the roof which is not being used and being technically ignorant, I have no idea if this can be used as an antenna for my radio. Any ideas? Thank goodness I have all my old logs intact, I'd hate to try to start all that from scratch. Whilemy R390A is being worked on, I've been using an old Radio Shack portable I got about 15 years ago which is incredibly sensitive and I've been logging call changes and the new stations in my area. It's funny but once you are really hooked on DXing, it seems to be an addiction that never disappears. It may lay dormant for a while but can resurface virulently at any time. I'll be going to the ANARC Winterfest so will likely see some of you there. It was good to get my first DX NEWS and see some familiar names from the past, DAVE, GERRY THOMAS, MIKE HARDESTER, JERRY STARR & others (Oldies-but goodies-hi!-DWS). I got started in DXing in 1962 when I wrote a letter to WHAM-1180 to ask them if they carried Rochester Red Wing games and they sent me a verie, the rest is history. Well, that's it for now, 73 (Welcome back, Elliot and we will look forward to your reports! I was just paging through an old issue of DX NEWS from the 70's and your name was often amongst the MUSINGS!-DWS)

BILL MOSER - Wishek, ND
- - - - - My reception of KUGR-1490 Green River, WY on 11/16 was verified by Sarina (no last name given), Public Service Director. Her letter contains the following information of interest to DXers: "KUGR (Cougar) radio transmits 7 days a week, 24 hours a day with the exception of Saturday & Sunday nights when we shut down for routine maintenance. We have 4 full time DJs and 2 part-timers. Al Harris (also our owner & manager) works the 6-9AM weekday time. I work the 9AM to 4PM slot. Bobby Diamond is on the air from 4 to 9PM. Mutual Radio network airs Larry Kings' talk show from midnight til 1AM and D.G. is our night owl from 1 to 6AM. We also have a news/sports director, Steve Core, who keeps us all up to date and has won several state broadcasting awards." No coverage maps are available, but Sarina sent me an "I love KUGR" bumper sticker with coupons from area merchants on the backign sheet. She even returned the stamp I enclosed for return postage. The stationary has this motto printed near the bottom: "broadKasting for you from Green River." If you hear KUGR, send a reception report, your efforts will be rewarded with a DXer friendly reply!

ROBERT RUSH - 50 PEQUOT ROAD - SOUTHAMPTON, MA 01073-9587
- - - - - Greetings from W MA! Since I have rejoined the NRC, I feel it's time for an introduction. I'm 30 years old and have been AM DXing for 13 years. Currentlym I use a Yaesu FT757 GX II and a G5RV antenna for the broadcast band and talking around the world. I have an extra class amateur license, NQ1A. With over 800 stations in the logbook, I'm ready to begin adding more. A couple of my favorite catches are KFI-640 and CKTA-1570, both logged at midnight a few years ago.

Thanks to ERNIE COOPER for encouraging me to rejoin the NRC! I'm glad to be back with the NRC! 73 (And welcome back to you also, Robert, we'll be looking forward to your reports and DX doings!-DWS)

RAY ARRUDA - 47 BURT STREET ACUSHNET, MA 02743-1939
- - - - - We enjoyed a ride out to Provincetown and visit with ERNIE COOPER on 1/24 with a promise to stay longer next visit! Cape Cod is a very peaceful and quiet place in the wintertime. I've been lightning for most CPC tests except the un-coded ones, with fair results. Code ID's have really helped in logging several tests, some at great distances. MM 12/14: WANK-1280 noted well here on scheduled TEST with Voice ID's, Code and March music 2:08-2:45AM+. Needed KNZZ-1100 was tried for but not heard, maybe next time. MM 12/28 WKGF-1480 tentative with code ID at 2:08 & 2:18AM, nothing else heard on a clear frequency that morning. January tests from KEYZ-660, KAZM-780 & WOC-1420 were all tried for but not heard. Sunday AM 1/31, good listening at the low end of the band with WGT0 & WIOD topping 540 & 610, both infrequent visitors in these parts! Also, WMT-600 Test noted 1-1:40AM with many code ID's, very weak with no sign of the usual WICC & Cuban. CFCB-600 was atop after 2AM with SRN Oldies Coast to Coast feed, local news and many IDs for a new logging. MM 2/1 up at 4AM to try for KOPE-1180 test, tentative reception report taken on code ID's from 4:25-4:27AM and again 4:50-4:54AM, barely audible under a strong WHAM-1180. Veries are back from CFDR-780, WLKW-790, & WKGF-1480 for tentative reception of their 12/28 test. We look forward to seeing all our radio friends in Fairfield. Welcome back to ELLIOT STRAUS, Toms River, NJ!! 73

DAVE SCHMIDT - P O BOX 11502 - WILMINGTON, DE 19850
- - - - - We've noticed some great northeast conditions of late, and especially on 2/5 with RI, NY, PA on just about every frequency at sunset, noting WLKW-790 as early as 4PM, holding rock solid til 5:10PM pattern change then still being audible! Wish I had more time to take advantage of these conditions, similar to those of the mid/late 60's! Locally, WWTN-1490 is scheduled to change to "Star-dust", dropping its long standing CW format. FM wise, our company is over-hauling the old WMPH-91.7 and it looks like this will be back on the air by mid/late Feb. Yes, the WVCH DX TEST on 3/8 will be simulcast on WEEE-89.5! A short column this week but much good DX info contained, thanks to all for their continued support!

16.WVCO

NEWS FLASH - A tanker truck loaded with 50 tons of Compound W was involved in ***** an accident and just demolished the studios of WART! Film at 11!

Now and Then John D. Bowker

Dial changes in AM markets, from 1930 to 1948 to 1992

NEW ORLEANS MARKET

