

# DX News

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Volume 62, No. 7 - November 14, 1994 (ISSN 0737-1659)



## Inside...

2... AM Switch  
3... DDxD

12... Now and Then  
13... IDxD  
18... Radio Roundup  
19... Antenna Experiments

### CPC Test Calendar

WGNY	1200	Nov. 14, 1994	0000-0030
WRIB	1220	Nov. 14, 1994	0030-0100
WILY	1210	Nov. 14, 1994	0100-0130
KOHI	1600	Nov. 20, 1994 t	0300-0330
KDDD	800	Nov. 21, 1994	0130-0200
WFRM	600	Nov. 21, 1994	0200-0230
WTRN	1340	Nov. 21, 1994	0200-0230
R. V. C.	535	Nov. 21, 1994	0200-0400
CJGX	940	Nov. 28, 1994	0100-0130
WMAM	570	Nov. 28, 1994	0100-0300
KFJM	1370	Nov. 28, 1994	0130-0200
WKVO	1580	Nov. 28, 1994	0130-0200
KDEX	1590	Dec. 3, 1994	0105-0130
KGTL	620	Dec. 3, 1994	0130-0200
WTRW	1590	Dec. 4, 1994	0530-0600
WHBY	1150	Dec. 5, 1994	0100-0200
KLTC	1460	Dec. 6, 1994	0230-0330
WERA	1590	Dec. 10, 1994	0430-0500
WIBW	580	Dec. 19, 1994	0200-0230
HCJB	690	Dec. 24, 1994	0015-0045

**Radio Vision Cristiana-535 -c/o WWRV-AM - P.O. Box 2908 - Patterson, NJ 07509-2908**, in the Turks and Caicos Islands, will conduct a rescheduled DX test between 2:00 & 4:00 am EST Monday, November 21, 1994. The test will include both contemporary and jazz music, voice IDs, test tones, and Morse code IDs at 50 kW, and the station will be using the Kahn Powerside System, so DX'ers should check lower sideband for part of the test. Reception reports may be sent to Mr. Bob Janney (KA4NYO), Chief Engineer. Arranged by J. D. Stephens for the IRCA CPC.

**From the publisher ...** I thought I'd share the following, via Fred Waterer in ODXA's "Listening In" column, as it typifies what heights radio can achieve:

### Sarajevo children ease pain of war

*Toronto Globe and Mail*

"Crammed into a tiny, makeshift studio, a trio of announcers juggles a never ending stream of phone calls, weaving laughter, drama, music and news into one of the most popular radio shows in besieged Sarajevo.

"All three announcers are children and so is the audience. For 90 minutes every day, the 'Colourful Wall' show enchants, illuminates and entertains many of the 60,000 children in this wounded city. One of every two children in Sarajevo tunes in regularly, according to a survey conducted this year, and many of the rest listen occasionally.

"The only things they will never hear about on 'Colourful Wall' are war and politics. The din of both can be deafening. 'Colourful Wall' is a partial escape.

"I like our travel show best," says nine-year-old Alma, one of the younger announcers. Her blond curls shake and she nearly

wriggles off the couch in this jury-rigged radio station in a ground-floor apartment as she describes visiting India, Africa and outer space.

"Like every other child in Sarajevo, Alma has not been anywhere for nearly 2 1/2 years. For most of the city's children, much of that time has been spent indoors, in relative safety from shelling and snipers.

"When we started (in June of 1993, more than a year after war erupted and Bosnia Serb forces began relentless shelling of Sarajevo) the whole idea was to keep children indoors," says Fata Hrnjica, a civil engineer with no background in radio who was, and remains, the driving force behind 'Colourful Wall'. In Sarajevo, children have lived war and politics and heard and seen little else, either in person or on the radio, since the war began, so we tried to make a program without either -- just fun and educational," she said.

"But it's the children -- currently 18 of them aged 8 to 14 -- who give the daily show its sparkle. Although the bulk of the on-air load is carried by the older children (up to 14 years old), the youngest play a part and there are no adults on the air.

"Even with the ending of heavy shelling in February and sniper deaths down to barely one a day, the show is regularly besieged by 200 calls daily, in a city where half the telephones do not work most of the time and the rest are unreliable.

"Only about one-third of Sarajevo's homes have power -- on a good day -- but children gather in basements or in apartment-building hallways to listen around communal radios using precious batteries.

"The children recreate 'The Muppet Show' (with outstanding imitations), produce a weekly drama and, with donated teenage, fashion and entertainment industry magazines often months old, keep their youthful audience up to date on the world beyond the siege. Tapes of 'Colourful Wall' are smuggled out of Sarajevo for rebroadcast in other Bosnian cities using local, low-power transmitters.

"'Colourful Wall' (*Sareni Zid* in Serbo-Croat) is part of Radio Zid (Radio Wall), which was set up in December of 1992, eight months after the war erupted in Bosnia-Herzegovina. Since then, it has been praised lavishly, both locally and internationally, for its eclectic mix of programming, its fierce independence in a city where the government controls the main radio and television stations, and its indefatigable spirit for staying on the air despite war and almost no money.

"We have tried to keep their imaginations alive -- so the show has to be fun, but it also has to be practical," Ms. Hrnjica says. "So we worked on games that could be played inside." Last winter, when cold and shelling forced makeshift schools to close, Radio Zid also broadcast a limited radio curriculum for Sarajevo's primary pupils.

"The United Nations Children's Fund, which provides Radio Zid with a generator and some funds for 'Colourful Wall', says the show underscores that children need more in their lives than a ration of humanitarian aid."

And although the war sometimes seems far away amid the laughter and enthusiasm in the studio, Ms. Hrnjica reminds a visitor that life remains grim even during Sarajevo's mostly successful ceasefires.

"Some of the children have fathers away on the front line; many have lost friends or relatives. ... Most haven't eaten an egg or a chocolate since the war began and all of them know that heavy fighting could start again," she said."

# 2 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:

1590 WAWA PA Chester

New call:

WPWA\*

\*This change is per station, has not yet appeared in FCC release.

## APPLICATION/GRANT FOR NEW STATIONS

None

## APPLICATIONS FROM EXISTING FACILITIES

None

## GRANTS TO EXISTING FACILITIES

680 WISR PA Butler: add 50 watts nights, antenna to U1  
780 WWOL NC Forest City: power to 10000 watts  
990 WNTY CT Southington: add 80 watts nights, antenna to U3

## OTHERNESS

570 WTEM MD Bethesda: CP for 4700/3000 is on  
590 WWLX TN Lawrenceburg: typo'd as Lawrence VILLE in #5  
750 WPDx WV Clarksburg: station is SILENT  
860 KONO TX San Antonio: CP for 900 watts nights is on from new transmitter site  
1030 WBGS WV Point Pleasant: new station is now ON THE AIR testing with continuous country music  
1060 WBIV MA Natick: has been airing an announcement that they will be "moving to 890 and merging with the new WBMA Dedham" so it seems that the future of the 1060 facility is in question, see Issue 5 for more background on this situation. WBMA's CP to move to Wellesley with 25000/5000 is still viable giving the 890 facility a better potential signal than 1060's more severely directional 25000/2500  
1150 CJRC PQ Gatineau: station is SILENT and believed to be DELETED, another victim of the Radiomedia merger  
1340 WADE NC Wadesboro: silent station is ON THE AIR  
WMQX NC Winston-Salem: station is SILENT  
1470 WCFJ IL Chicago Heights: Yeh, I know we told you to change it to Ford Heights but we were evidently led down the mis-information highway. Here's the deal: WCFJ's city of license REMAINS Chicago Heights. The city of their mailing address, EAST CHICAGO HEIGHTS has changed its name to FORD HEIGHTS. This confirmed by the station to member G. Harley DeLeurere who visited WCFJ recently and reflected in the new NRC Log.  
1520 KMAV ND Mayville: silent station is ON THE AIR, silence was due to storm damage  
1600 KWMX CO Lakewood: vandals toppled one of their towers, station presently operating non-DA at night with reduced power, Denver rumor mill claims their format/call switch to KYGO will take place in December or January  
1660 KEYF WA Dishman: last issue we typo'd this call as KEYE (see Expanded Band list)  
1670 KECR CA El Cajon: last issued typo'd as KRCR  
1690 WBCI IL Normal: also from the Expanded Band list, does anybody have any information on this station shown on the FCC list as being on 1440 kHz? Our records indicate it went silent in July 1990 with the call WIRE and was subsequently deleted by the FCC. It does not appear in any NRC Log since 1991, nor is it listed in the MSJ Directory or the FCC Database. Has another one returned from the dead?

**THANKS:** Wayne Hemen, Jeff Tynan, Bill Hale, Marc DeLorenzo, Bill Swiger, G. Harley DeLeurere, Ed Krejny, Butch Miller and MSJ.

73 and Good DX,

*Jerry Starr*

Jerry Starr & Buffalo K. Foonman

# WJJC

BROADCASTING CO. INC.  
P.O. Box 179 • Commerce, Georgia 30529  
1278 AM ABC & GA. RADIO NEWS SERVICE

# Domestic DX Digest

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East: Dave Braun 73520,657@compuserve.com

11 Mill Bend Acres • Wyoming, DE 19934-9523

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between East and  
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West Plains, MO 65775

- Although I hate to do it, I have had to omit several loggings from submissions this week. Why? With respect to all those DXers who only report kilowatters or less from beyond 600 miles. Or because I didn't feel it was a true, DX catch. That's why.
- Shawn reports nothing gained for his tries at the tests, but no sleep. And no snow yet in Winterpeg. Gee . . . my relatives in Saskatchewan report 4" on the ground. Brrrrr. So it's on the way. New reporter James Gerik of Ripon, California checks in for the first time in this issue. Welcome aboard, James. Report often!
- According to an Express-News article sent by Jim Boehm of San Antonio, Clear Channel Communications (you know . . . WOAI) is buying KYOK Houston along with its FM. And they just purchased KPRC and KSEV in the Houston area. Guess that's too much to handle, so they're turning right around and selling KYOK to an outfit who's buying KALO from CCC. Musical stations, Ladies and Gents!!
- New Graveyard records from Karl Jeter, Bill Dvorak and Jim Boehm keep those lists from gathering any dust.
- (If anything doesn't seem quite right in this column, it's because the publisher had to use an unfamiliar WP application to open, process, and print this column. Some glitch, no doubt, and not due to any error on Bill's part. -pls.)

## REPORTERS

LG-FL Lynn Gillis Jacksonville ICF-6500W via DB-DE on the Info Interstate  
DS-TN Doug Smith Pleasant View Kenwood TS-680  
JG-CA James Gerik Ripon Superadio III, ICF-2010  
FA-ID Frank Aden Boise modified PRG-7, modified TRF, SRF-42 AM\$ Walkman + 45' N-S lw, 180' L-longwire, 4' box loop  
JB-TX Jim Boehm San Antonio, TX ICF-2010 + downspout (rain gutter) antenna  
TR-LA Thomas Reiser (Chicago, IL) DXing at the Raddison Suites Hotel in New Orleans Sony ICF-2003 with built in antenna  
SA-MB Shawn Axelrod Winnipeg ICOM R-70 w/ PLAM board & 0.5, 2.4 & 4 kHz filter + 4' box loop or 100' lw  
BD-WI Bill Dvorak Madison barefoot Superadio III  
RK-IL Robert Kramer Chicago rx: R-5000, R-1000, HQ-129X; ant: KIWA Loop, 2 Radio West Loops, Super MWDX-5A phasing unit, 90' NNE-SSW wire, 40db pre-amp; audio filters: Kantronics Signal Enforcer, MFJ-752C, Timewave DSP-59+ digital signal processor, JPS NIR-10 digital signal processor, Radio Shack DSP  
NAP-AL Neal Perdue Madison (parking lot at work) Sony ICF-SW30 barefoot  
DE-MO Dennis Elya Jefferson City Superadio III barefoot  
Ed-ID Editor Meridian ICF-2010 barefooted or Delco AMS/FMS ETR

## SPECIAL

- 860 KAPN UT Salt Lake City - 10/28 1808+ - Fair, in car on way home from work, with The News Station, KAPN. AP Sports at :15, then other AP features. Lots of SLC mentions. Call letters may mean AP News. Now all-news (?). [Ed-ID]
- 1410 KQAM KS Wichita - 10/24 0600 - With ID as Good morning, partly cloudy, 53 degrees at TOP(?) Radio 1330 KFH Wichita and 1410 KQAM Wichita into weather, then talk. KFH signal very poor under another unID, but believe program was simulcast talk. (JB-TX) [Jim inquires if this simulcasting is noted in the new NRC Log. No, it's not. The Log says that KQAM simulcasts with 103.7 FM. Any Jayhawks out there who can shed some light on this? - Ed] (Can't hear KQAM in Topeka -pls.)

## UNIDs and UNID HELP

- 640 UNID ?? - 10/25 0130 - Someone w/ Led Zeppelin. Is CHOG-ON still running this format? (DS-TN)
- 690 WTIK LA New Orleans - This is Jon Ellis' unID from Issue 3. I heard a dual ID on 10/9 2234 WASO 730 Covington, WTIK 690 New Orleans during a talk show. (DE-MO)
- 1010 WHIN TN Gallatin - I believe this is Rick Dau's unID in Issue 3. The locations heard on 10/1 are in this area, and I have heard this station before carrying statewide HS FB scores while driving through on I-65. Also, at 5000 watts days, it's a plausible catch in Iowa. (LG-FL)
- UNID ?? - 10/18 2228 - Poor, with *The World Tonight* program and an ID which sounded like KRID. (SA-MB)
- 1110 UNID ?? - 10/25 0104 - Someone with heavy metal in E: (DS-TN)
- 1620 UNID ?? - 10/23 2308+ - With continuous distorted nostalgia music, no announcements or IDs. Checked 540 (3rd harmonic) and 810 (2nd harmonic) [Wouldn't these be "sub-harmonics" of 1620? - Ed] but no parallels. Nor did it appear to be a spur from any of my locals -- in any case, the nearest AM station operating at this time, WLAC-1510, is over 20 miles away. Sounds like a pirate, though NOS is an unusual choice of music! (DS-TN) [Hey, I enjoy NOS. Maybe the "pirate" is in his 70s, hi - Ed]
- 1620 UNID ?? - 10/25 1333 - Same station as noted 10/23 2308. Continuous NOS & no announcements. Not parallel to anything local. Not heard 10/26 1030. (DS-TN)

## DX AND EQUIPMENT TESTS

- 960 WPMR- PA Mount Pocono - 10/17 0030-0100 - Nothing heard. (FA-ID) Nothing heard. Only WSBT, CFAC and KMA. (SA-MB) Listened for. Did not hear. (BD-WI) Nothing heard. Only KMA over CFAC. (DE-MO)
- 1150 WGEA- IL Geneva - 10/17 0130 - Not heard. Only CKX, CKOC and KSAL. (SA-MB) Listened for. Did not hear. (BD-WI) Not heard, but got needed call change of KLRG-AR, ex: KXLR. (NAP-AL) Nothing heard. Only KLRG over many others. (DE-MO)
- 1160 WPIE+ PA Trumansburg - 10/24 0200-0231 - Fair, with severe KSL QRM [Iah! You oughtta be here - Ed.], with CIDs, C&W music, frequent mentions of telephone number and invitations to call. (BD-WI)
- WPIE+ PA Trumansburg - 10/24 0200-0230 - Two minutes of code heard late in the test. WJJD owned the frequency. (NAP-AL)
- WPIE+ PA Trumansburg - 10/24 0200-0230 - Heard VID, music, tones. Detailed description sent. Under KSL (which was really blasting away) and some unknown, possibly WJJD (DE-MO)
- 1200 WBZY+ PA New Castle - 10/25 0018 - Fair-to-good, with rock music, voice and code IDs. WOPA phased. (RK-IL)
- WBZY+ PA New Castle - 10/25 0000-0030 - Very weak. Recognized some music and heard the code, but could not make out the VIDs. Way under WOAL. (DE-MO)
- 1210 WILY- IL Centralia - 10/17 0100-0130 - Nothing heard. (FA-ID) Not heard Only WGMP [The Forrest Gump station, hi - Ed] and KGYN. (SA-MB) Listened for. Did not hear. (BD-WI) Not heard. Just WGMP and KGYN. This is a normal daytime reception for me, so maybe they didn't do the test. (DE-MO)
- 1280 WNAM- WI Neenah - 10/24 0300-0330 - Not heard, but got first log of WQUE since '81. (NAP-AL) I thought I heard one set of codes, but since I was sleepy, I wouldn't count it. One set of codes isn't enough evidence. (DE-MO)
- 1620 KA2XAU+ PA Richland - QSL letter back in about a week. Listed other frequency and said 250 watts. Signed by Craig Baker. (FA-ID)

## NDBs

- 514 RRQ ?? - 10/23 2321 - NDB. (DS-TN)
- 520 TO ?? - 10/23 2315 - NDB. (DS-TN)
- 523 UOC ?? - 10/23 2315 - NDB. (DS-TN)
- 526 CYV ?? - 10/23 2315 - NDB, w/ ZLS. (DS-TN)
- 1663 8W84114 ?? - 10/23 2321 - Fishing net beacon. (DS-TN)
- 1667 GEA837 ?? - 10/23 2321 - Fishing net beacon. (DS-TN)
- 1679 KA83933 ?? - 10/23 2321 - Fishing net beacon. (DS-TN)
- 1682 B488 ?? - 10/23 2321 - Fishing net beacon. (DS-TN)
- 1685 B231 ?? - 10/23 2321 - Fishing net beacon, w/MER. (DS-TN)



NEWS — 900AM — TALK  
157 Main Dunstable Rd. Nashua, NH 03060

## TIS &amp; OTHER STUFF

- 1620 KG? TX Houston - 10/25 0144 - With Houston NWS weather. (DS-TN)

## MIDNIGHT TO 0800 HOURS ELT

- 550 KFYZ ND Bismarck - 10/24 0130 - Under KSD and WCKY, with *Those were the Eagles on K-Fire*, then local weather/conditions for North Dakota cities. (DE-MO)
- KTSA TX San Antonio - 10/24 0400 - With legal ID at :00, then ABC News. (NAP-AL)
- 560 KLZ CO Denver - 10/12 0756-0804 - Poor, in WIND null, with ad for Flagstone (?) Books, SID, REL music. (BD-WI)
- 590 WGNE FL Panama City - 10/17 0246 - Heard ID, right after WMBS. (NAP-AL)
- WKHX GA Atlanta - 10/17 0300 - With legal ID, old C&W after WMBS/WGNE fade-out. (NAP-AL)
- WMBS PA Uniontown - 10/17 0245 - With mention of upcoming story on *The WMBS Newsroom* in brief fade-in. (NAP-AL)
- 680 KNBR CA San Francisco - 10/23 0136 - Fair, with KNBR 68 *San Francisco, The Sports Leader*. (DS-TN)
- 1050 CHUM ON Toronto - 10/15 0402-0417 - Poor, with OLD music. (BD-WI)
- 1150 KIMM SD Rapid City - 10/13 0758-0802 - Poor, on crowded frequency, with ad for Fisher Furniture, ABC News at 0800, slogan *Your Source for News Talk*. (BD-WI)
- 1160 KSL UT Salt Lake City - 10/23 0151 - Good, with local ads. Never heard in Nashville due to WAMB. (DS-TN)
- 1220 KQMG IA Independence - 10/22 0250 - Fair, with oldies, AM & FM ID. Also IDs as *Magic 95.3*. (RK-IL)
- 1230 WCUZ MI Grand Rapids - 10/13 0655 - Fair, with a WCUZ ID, then talk about the new phone services to be available in town. (SA-MB)
- 1260 KTTS MO Springfield - 10/24 0010 - With *All the hits keep coming on KTTS*. (NAP-AL)
- 1270 KESS TX Fort Worth - 10/23 0159 - Excellent in SS, with legal ID in heavily accented EE. (DS-TN)
- 1330 WFBC SC Greenville - 10/25 0157 - *Netstalk 1330 & 910 WFBC*. (DS-TN)
- KGLD TX Tyler - 10/25 0157 - *Good Time Oldies 1330 KGLD* Fighting with WFBC-SC. (DS-TN)
- 1440 KITA AR Little Rock - 10/20 0731-0758 - Black evangelist, in and out, into promo for revival meeting at Baptist church at 2010 Broadway in Mena, Arkansas. ID as *This is KITA, Little Rock. Your station for ??*. Then USA Radio News. Occasionally heard, but first time on PSRA. (JB-TX)
- KMLB LA Monroe - 10/18 0259-0314 - Poor, with Bruce Williams, legal ID read by Tom Bodette, MBS News at 0300, slogan *Talk Radio 1440*. (BD-WI)
- 1490 KSAM TX Huntsville - 10/20 0602-0607 - Willie Nelson singing. Then *We'll have more country here on K-Sam 101.7 when we ??*. Up again at 0607 with ... on *K-Sam Rodeo Time this coming Sunday morning*. (JB-TX) [Yeah, the boys at Huntsville really love to attend those rodeos, hi - Ed.]
- 1510 KANS KS Larned - 10/19 0033 - Lots of "KANS" IDs, AC music. Transmitter left on? Under WLAC, but not by much. (DE-MO)
- 1550 KXOJ OK Sapulpa - 10/16 0254-0310 - Fair, with REL:AC music // KEMX 94.5, Locust Grove, Oklahoma and KEOJ 101.1, Caney, Kansas. Slogans *Radio for the Whole Family* and *We're Tulsa's Family Radio Station*. (BD-WI)

## 0800 TO 1600 HOURS ELT

- 820 WBAP TX Fort Worth - 10/26 1137 - *Neustalk 820 WBAP*. Fair & dominant. (DS-TN)
- 870 WMTL KY Leitchfield - 10/26 1135 - Weak, with *WMTL Forecast*, fighting two unIDs (probably WWL & WQRX). (DS-TN)
- 1040 WHO IA Des Moines - 10/26 1126 - Weak, in the clear, with local talk & calls. No sign of WJOR or WQBB. (DS-TN)
- 1080 KYMO MO East Prairie - 10/26 1123 - Fair, over/under KRLD w/oldies & SID. (DS-TN)
- KRLD TX Dallas - 10/26 1123 - Fair, with & then well over, KYMO. *Newsradio 1080 KRLD*. (DS-TN)
- 1190 WHMT TN Humboldt - 10/24 1156 - Good, with *Z105.3 // WLSZ-FM*. (DS-TN)
- 1240 WENK TN Union City - 10/24 1159 - With local ads. Local WKDA with open carrier (DS-TN)
- 1370 KXTL MT Butte - 10/28 0927 - Poor, in car, with *tell your friends the great oldies are on KXTL into Animals* and *Don't let Me Be Misunderstood*. Not that far, but hard to hear due to KSRV. [Ed-ID]

- 1410 KKLO KS Leavenworth - 10/26 1043 - KKLO Kansas City's Love 14. Poor with considerable fading. (DS-TN)
- 1430 KQLL OK Tulsa - 10/26 1038 - Fair, with *Thanks Tulsa*, legal ID. (DS-TN)
- 1450 KMRY IA Cedar Rapids - 10/22 0759-0814 - Good, with SNN News at 0800, local news at 0803, ad for Guaranty Bank, and weather at 0812 and SMN NOS. Slogan *K-Memory*. (BD-WI)
- 1520 KOMA OK Oklahoma City - 10/26 1027 - Very good, with oldies & calls. (DS-TN)
- 1570 WLBQ KY Morgantown - 10/25 1349 - Local ads & legal ID. (DS-TN)

1600 TO 2400 HOURS ET

- 540 WYLO WI Jackson - 10/18 2024 - With *Today's Christinn Radio*, WYLO, then into CCR. In the clear. No Canadian, no Mexican. (DE-MO)
- 560 WIND IL Chicago - 10/18 2029 - With SS music/talk. Many Chicago references. With KWTO and KLZ. (DE-MO)
- 650 WSM TN Nashville - 10/17 2025 - Fair. Played cut by opening act for Beatles. (TR-LA) [Are they still touring? - Ed]
- 670 WMAQ IL Chicago - 10/19 2035 - Fair story on student stealing credit card. (TR-LA)
- 700 KFAM UT North Salt Lake - 10/23 2316-2331 - Weak reception. Station ID at the :30 as *Making music a little easier*. (JG-CA)
- 720 WGN IL Chicago - 10/17 2035 - With talk about movies. (TR-LA)
- 740 KTRH TX Houston - 10/17 2155 - Fair, with flood problems. (TR-LA)
- 760 KFMB CA San Diego - 10/23 2340-2345 - Fair reception. Station ID and *The News Sinton* slogan. (JG-CA)
- WJR MI Detroit - 10/17 2200 - Fair, with story on serial rapist in Ann Arbor. (TR-LA)
- 860 KKOW KS Pittsburg - 10/23 2343 - 86 AM KKOW, u/CBF. (DS-TN)
- 890 WLS IL Chicago - 10/19 [no time] - Poor, with WWL splash, with promo for debate for Illinois governor's race. (TR-IL)
- 930 WSLI MS Jackson - 10/19 2318 - Poor, with football sports talk. (TR-LA)
- 940 WMIX IL Mount Vernon - 10/14 2058-2117 - Good, with ad for Page Insurance, SID, MBS News at 2100, CHR music. ID mentioned *A Service of Withers Broadcasting*. (BD-WI)
- CJIB BC Vernon - 10/25 0014 - With promo for *CJIB94 Music Explosion Contest*, with winner getting [a whole] C\$40. With the exchange rate what it is, I'd only win about US\$25, so I didn't call, hi. Fair, with fades. [Ed-ID]
- 990 KWAM TN Memphis - 10/23 2308 - Blowing up the dial with B:GOS & calls. Had to be on day power... (DS-TN)
- 1010 WMOX MS Meridian - 10/18 0715 - Fair, with ads for local businesses. New. (TR-LA)
- 1070 KNX CA Los Angeles - 10/23 2249 - Dominant with *LA traffic* on KNX. First time I've ever heard two Californians on the same night, except when DXing in CA! (DS-TN)
- 1080 KRLD TX Dallas - 10/18 0023 - Fair, with Monday Night Football. (TR-LA)
- 1100 WWWE OH Cleveland - 10/18 0024 - Repeat of Rush Limbaugh show, with fair signal. (TR-LA)
- 1120 KMOX MO St. Louis - 10/17 2045 - Fair, Missouri Tiger talk on Missouri-Nebraska Football. (TR-LA)
- WDUF VA Duffield - 10/25 1822 - Fair, with ID and detailed local weather. KMOX phased. (RK-IL)
- 1130 WDFN MI Detroit - 10/18 2104 - With sports talk, with the *Mega-Man*, VID, then ABC News Headlines @ 2105. Over WBBR, and no one else. (DE-MO)
- WBBR NY New York - 10/18 2112 - *From the WBBR Newsroom*. Under WDFN. Usual KWKH was nowhere to be found (DE-MO)
- 1140 WVEL IL Pekin - 10/18 1659 - Heard sign-off, over WRVA. (DE-MO)
- 1150 KLRG AR North Little Rock - 10/19 1955-2006 - Good, with GOS music, Marcia Gail DJ, slogan *Praise 1150*. (BD-WI)
- KLRG AR North Little Rock - 10/23 2120 - Excellent, w/B:GOS, *We're Praise 1150* KLRG. Still loud past 0100, destroying any chance of the WGEA-1150 test. (DS-TN)
- 1160 KSL UT Salt Lake - 10/23 2255 - Dominant with ad for TCI Cablevision of Utah. Not heard in Nashville due to WAMB. (DS-TN)
- 1190 KEX OR Portland - 10/24 0000-0007 - Fair reception, with announcement: *Land of Nigh*. (JG-CA) [I believe what you heard was "Land of Nye", which is what Art Bell uses as an intro to his talk show. The town in Nevada, Pahrump, where he lives and remotes his show from (his den) is located in Nye County - Ed.]

- 1220 WIMN MN Stillwater - 10/21 2322 - Fair, with ID and NOS music. (RK-IL)
- 1300 KAKC OK Tulsa - 10/23 2137 - Fair, with *AM 1300 K-A-K-C*, *Tulsa's Sports Authority*. (DS-TN)
- 1330 KFH KS Wichita - 10/23 2305 - *Talk Radio 1330 KFH*. (DS-TN)
- 1400 KWYN AR Wynne - 10/13 1959-2000 - Poor, with legal ID as 1400 AM KWYN, *Wynne*, a woman announcing current weather conditions. NBC News at 2000. (BD-WI) [And a new Graveyard record! - Ed.]
- 1490 WGEZ WI Beloit - 10/11 1957-2002 - Poor, with OLD music. Although only 50 miles away, this is a very tough GY station to get here with local WTDY on 1480. (BD-WI)
- 1530 KFBK CA Sacramento - 10/23 2147 - Political ad for northern California, 1530 KFBK. A stunning logging! Left me in shock. WSAI-OH was on with REL but KFBK at equal strength. I like this antenna... (DS-TN)
- 1540 KTNO TX University Park - 10/21 2246 - With SS talk, music, some local Dallas ads. Over unID SS station. KXEL could not be heard. (DE-MO)
- 1580 WKKD IL Aurora - 10/12 1958-2020 - Good, with promo for local high school football coverage, OLD music, slogan *Aurora's Great AM*. (BD-WI)
- WDAB SC Travelers Rest - 10/20 1955-1959 - Poor, with CNN Headline News and sign-off. Address as in new Log. (BD-WI)

GRAVEYARD DX UPDATE

\* indicates North American record

1230 kHz:

WNVY	FL	Pensacola	Karl Jeter	Stone Mountain, GA	251
WXLI	GA	Dublin	Karl Jeter	Stone Mountain	116
WHOP	KY	Hopkinsville	Karl Jeter	Stone Mountain	284
WNNC	NC	Newton	Karl Jeter	Stone Mountain	210
KOZA	TX	Odessa	Karl Jeter	Stone Mountain	1066

1240 kHz:

WOWL	AL	Florence	Karl Jeter	Stone Mountain, GA	213
WTWA	GA	Thomson	Karl Jeter	Stone Mountain	98
WJEJ	MD	Hagerstown	Karl Jeter	Stone Mountain	539
WRAQ	NC	Brevard	Karl Jeter	Stone Mountain	128
KOKL	OK	Okmulgee	Karl Jeter	Stone Mountain	682

1340 kHz:

WBRE	PA	Wilkes-Barre	Karl Jeter	Stone Mountain, GA	695
WKRM	TN	Columbia	Karl Jeter	Stone Mountain	206
KOLE	TX	Port Arthur	Karl Jeter	Stone Mountain	634

1400 kHz:

KWYN	AR	Wynne	Bill Dvorak	Madison, WI	543
WNEX	GA	Macon	Karl Jeter	Stone Mountain, GA	73
WOND	NJ	Pleasantville	Karl Jeter	Stone Mountain	660
WHAL		Shelbyville	Karl Jeter	Stone Mountain	173

1450 kHz:

WDIG	AL	Dothan	Karl Jeter	Stone Mountain, GA	193
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1490 kHz:

WSIR	FL	Winter Haven	Karl Jeter	Stone Mountain, GA	426
WSYL	GA	Sylvania	Karl Jeter	Stone Mountain	165
WABJ	MI	Adrian	Karl Jeter	Stone Mountain	*559
WJJM	TN	Lewisburg	Karl Jeter	Stone Mountain	187
WDXL		Lexington	Karl Jeter	Stone Mountain	271
KSAM	TX	Huntsville	Jim Boehm	San Antonio, TX	197

Totals:

Karl Jeter	Suburban Atlanta, GA	<u>1230</u>	<u>1240</u>	<u>1340</u>	<u>1400</u>	<u>1450</u>	<u>1490</u>	<u>Total</u>
		20	31	20	29	29	41	170

CRAWFORD BROADCASTING COMPANY

WDCW-AM Radio 1390  
1022 Willis Avenue  
Syracuse, NY 13204



## NEWS AND VIEWS

Good to hear from Rocky Stone via CompuServe with some UNID help on Steve Whitt's recent request.

Everybody seems to be busy DXing - why don't you let us know what you're hearing. Maybe it will help somebody else snag that much wanted one! About half of the contributions are coming via e-mail; if that method is easier for you, send your loggings to me at DPHT10A (Prodigy) or 73520,657 (CompuServe). We're weekly until the end of the season, and I do the column over the weekend, so you can send your loggings at your convenience and they'll get in the next column I type.

## SPECIAL

- 630 **CHLT** PQ Sherbrooke - 10/21 2011-2050 - *Radiomedia* program, FF pops, IDs, news at 2045. This is new network from merger of *Telemidia*, *Radiomutuel*. (DY-CT)
- 890 **WBIV?** MA Wellesley - 10/22 1751 - Good and alone with college hockey preview on *Sports Segway*, IDing as WBIV. Announcer said they would eventually be WBIV on 890 full time, but the FCC was making them use 1060 at night for now. Abruptly gone at 1800, presumably to 1060. New *Log* shows this as Wellesley, last year's showed it as Dedham? (DB-DE)
- 930 **KWOC** MO Poplar Bluff - 10/24 0029 - Fair with ID "News radio 930 KWOC Poplar Bluff" into promo for *Bill Amerson Appreciation Rally*. Apparently format change from CW. Unneeded. (RT-NC)
- 940 **WADV** PA Lebanon - 10/24 0248 - PSA, ID over pack, CBM off, listed 5 watts! (DY-CT) (And *Log* shows sign-off at 0000 - db)
- 1150 **WRUN** NY Utica - 10/20 0645-0700 - Fair, now playing NOS music, no longer BIZ/TLK, ID at 0658 "WRUN 1150 Utica-Rome", *NBC Network News* at 0700. (JH-NJ)
- 1430 **WNJR** NJ Newark - 10/21 - Russian language until 0900, Spanish after that until 1200, English rest of day. EE IDs at :00. (JH-NJ)
- 1510 **WSSH** MA Boston - 10/24 - The *Talk America Network* finally went out of business, as the flagship returned to a Spanish format today, with jingles and IDs as "Alpha Quince-Diez, la brava de New England". (BC-NH)
- 1530 **WJDM** NJ Elizabeth - At least one hour of EE and oldies style music in late afternoon, 1800-1900 weekdays. After that WSAI comes booming in. EE and oldies music still on weekends. (JH-NJ) (This updates John's report in Vol. 62, No. 5 - db)

## DX TESTS

- 960 **WPMR** PA Mount Pocono - 10/17 0030-0100 - No sign of test, business phone line not answered. (DS-DE)
- 1150 **WGEA** AL Geneva - 10/24 0100-0130 - Poor with code at 0114 under presumed CKOC in WDEL null. (DB-DE) ...Code IDs noted 0105, 0119, and 0125, weak signal, no other audio heard. Surprised this not better heard here. (KVJ-GA) ...One code ID at 0119, tape sent with clear ID. Nothing else I don't think this one got out too well. Much QRM from CKOC/KI.RG and many others. New. (RT-NC) ...Not heard. (SF-TN) ...Not heard. Listened 0100-0125 but noted only occasional SS-language station and UNID with Oldies. (MH-NC) ...Not heard, WRUN and CKOC only. (DY-CT)
- 1160 **WPIE** NY Trumansburg - 10/24 0200-0230 - Weak code at 0204 under news on WJJD, one other station with a Doobie Brothers song, then "40 minutes of nonstop music, here's Springsteen", WCCS? Thought this test would be better here. (DB-DE) ...Poor-fair under WJJD and WOBM with CW and code IDs. Took a call on the air from J.D. Stephens and acknowledged calls from as far away as Denver. (SF-TN) ...Noted, however not enough for a report. Code noted at 0204, 0218 and 0224. During latter segment, able to pick out single ID. Severe QRM from WOBM and WJJD both with NOS formats. (MH-NC) ...Code IDs noted about every 4-5 minutes, one weak voice ID at 0207, possible music, but too much WJJD to be sure. (KVJ-GA) ...Fair at best with code ID, voice IDs and bluegrass music. Called station and talked with Joe. Heard mention of Huntsville, AL during broadcast. Unneeded, QRM from strong WJJD and WOBM (not heard in about 5 years). (RT-NC) ...Not heard, WJJD dominant. (DY-CT)
- 1200 **WBZY** PA New Castle - 10/25 0000-0030 - Fair at peaks with oldies and code IDs. WOAI made voice IDs difficult, but caught a couple of partial ones. (SF-TN) ...Fair with rock oldies (*Be Bop-A-Lula*, *Town Without Pity*, etc.). Numerous code IDs and one

voice ID heard mentioning NRC (KVJ-GA) ...Heard very weak for 5000 watts non-directional with three sets of code IDs. QRM from WAGE and WKRL depending upon which long wire I used I called Bill King, C.E. at 0030 to confirm times the code was sent and he mentioned schedule as 0530-0100 (2300 Sunday nite). This was heard in the 80s when on 1140 at sunset. (RM-CT) ...Very good (S9+5db) with some fading down to S5. Heard with code IDs, many voice IDs and oldies music. Unneeded, QRM from WOAI and Cuban. (RT-NC)

- 1210 **WILY** IL Centralia - 10/17 0100-0130 - Not heard with WGMP null, just UNID SS. (DS-DE)
- 1280 **WNAM** WI Neenah-Menasha - 10/24 0300-0330 - Weak code at 0301, into brief TT, nothing else heard, frequency was a real jumble. (DB-DE) ...Fair under WWOK with two minutes of code IDs and TT toward the beginning, but no further sign of them. Caught three IDs from long-sought WONW while awaiting more code from WNAM, so no complaints! (SF-TN) ...Possibly noted from 0301-0325 tune-out. Noted only (possible) weak code at 0301 followed by tone, a brief break and code again, but at (seemingly) higher pitch. QRM? Plenty: SS-language stn, rocker, and CW with *Overdrive Top 10 Countdown*. Also, UNID with mention of "103 FM." (MH-NC) ...Tentative with code IDs, followed by test tone for about 20 seconds. Listened to 0330, nothing else noted. (KVJ-GA) ...Good with one code ID sequence followed by tone, followed by music (*In the Mood*), nothing else. QRM from WQUE, WONW, WADO with SS, WWOK and several UNIDs. New. (RT-NC) ...Not heard, WADO semi-local strong. (DY-CT)

## UNID AND UNID HELP

- 940 **UNID** 10/24 0245 - CBM off, weather, Central time check, "Oldies 94" ID, KIOA? (DY-CT)
- 960 **UNID** 10/17 0049 - "Oldies 96" with *Good Time Oldies*, CHNS or CFFX? Looped toward NE. No sign of WPMR test. (DS-DE) (CHNS has been more common here this year, I haven't logged CFFX since their call change - db)
- 1080 **UNID** 10/28 0737-0750 - Gospel preacher in WTC null, by 0800 only WEEP. (DB-DE)
- 1360 **UNID** 10/27 1854 - Someone with talk mentioning a phone number with a 315 area code, which is upstate NY. Faded before top of hour. (DB-DE)
- 1510 **WLAC** TN Nashville - 10/1 0145 - This would be SW-UK's UNID as they have been carrying *The Road Gang* for several weeks now. (RS-MO)

## 0000 to 0800 ELT

- 600 **CFCH** ON North Bay - 9/25 0025 - Pop music, ad for *Clapton at Maple Leaf Gardens*, ID, good signal. (RH-NJ)
- 620 **WVMT** VT Burlington - 10/1 0305 - Weather, ID "WVMT, your weather station...high only near 50". (RH-NJ) (This is by far the most consistent VT here - db)
- 630 **WMAL** DC Washington - 10/24 0307 - Local ad, *Environment Show*, fair-good over WPRO. (DY-CT)
- 660 **KSKY** TX Balch Springs - 10/22 0630 - Poor in upper sideband with call letters, PSA, REL music. *Log* says 500 watts at night. (MB-IN)
- 730 **WNAK** PA Nanticoke - 10/21 0730-0800 - Poor-fair with *Milkman's Broadcast*, NOS music, ID at 0759 "WNAK 730". Shadow of the old *WNEW Milkman's Serenade*. (JH-NJ)
- 920 **WTRD** NY Lake Placid - 10/2 0013 - ID "105.5 FM and 920 AM, Lake Placid, the sports capital of New York and the world", pop music, e.g. Phil Collins, Elton John. Strong. (RH-NJ)
- 990 **CKIS** PQ Montreal - 10/17 0059 - Even with WZZD with oldies. (DS-DE)
- 1000 **CKBW** NS Bridgewater - 10/24 0200 - CW music, ID by woman, WMVP off. (DY-CT)
- 1090 **WXBK** AL Albertville - 10/23 0615 - Fair with ID, regional weather forecast, REL music. These 1000 watters have been making a respectable appearance here at sunrise lately. (MB-IN)
- 1160 **WOBM** NJ Lakewood Township - 10/24 0145 - Faded up with "AM 1160 WOBM weather forecast" into *Special Angel* by Bobby Helms. Unneeded, but not heard in about 5 years, heard while waiting for WPIE test. (RT-NC) (I wouldn't mind not hearing them for 5 years! - db)
- 1200 **WAGE** VA Leesburg - 10/18 0100 - Suspect they running close-circuit feed with *Jim Bohannon*, IDs for KSFO, WRC, WRKO, KTRH, then music bed and beep tones. (DS-DE)

- 1240 WRTA PA Altoona - 10/18 0106 - Noted with sign-off and Whitney Houston's SSB, really cut through din! (DS-DE)
- 1280 WONW OH Defiance - 10/24 0300 - Fade up for good ID while waiting for WNAM test. (RT-NC)
- WONW OH Defiance - 10/24 0323 - Fair under WWOK with satellite CW and quick call drop-ins after nearly every song. OH #95. (SF-TN)
- 1310 CIWW ON Ottawa - 10/2 0032 - Good Time Oldies, Canadian satellite oldies show. Chubby Checker's *Twist*, same program on CJBK-1290 and CFFX-960. (RH-NJ)
- 1390 WGCI IL Chicago - 10/22 0600 - Fair with ID, local talk show. New. (MB-IN)
- 1480 WHBC ON Canton - 9/27 0448 - Good with *America This Morning*. French Canadian in null early evening, nothing early morning. (RH-ON)
- 1500 WTOP DC Washington - 10/17 0009 - Noted off this AM, leaving SS. (DS-DE)
- 1560 KCJJ IA Iowa City - 10/24 0130 - Lite pops circa 1980, "The New 1560 KCJJ" ID, WQEW off, good. (DY-CT) (I was looking for them at this same time and only got WPAD - bah! - db)
- WPAD KY Paducah - 10/24 0112 - NOS mx, ID, ads, gave way to KCJJ. (DY-CT)
- 1570 WTLK NC Taylorsville - 10/23 0703 - End of REL song, jingle ID, ads for *Quality Jewelers* in Taylorsville and *Smithy's*. Good on top of channel. (DB-DE)

### 0800 to 1600 ELT

- 760 WJR MI Detroit - 10/24 1308 - In good with end of news, many mentions of calls by announcer while talking after news. Unusual reception at this time of day, perhaps due to massive front in the midwest at the time. WLW, WWWE and possible WMAQ, WGN also in at the time. (DB-DE)

### 1600 TO 2400 ELT

- 550 WJMW PA Bloomsburg - 10/21 2025 - Good with high school football, way over WGR - not usually heard nights! (DS-DE)
- 720 WWII PA Shiremanstown - 10/21 1826 - Upbeat Christian music, seeking funds "to keep Christian radio in the Harrisburg area". "Love 720" IDs, good. (DY-CT)
- 750 WBMD MD Baltimore - 10/16 1825-1831 - Loud and clear with polka music to sign-off, leaving CKGB on channel with CW music. (MD-MA)
- CKGB ON Timmins - 10/28 2247 - Good, CW music into *Broadcast News* at 2300 and ad for *The Sports Place*. First time received here due to WSB and Venezuela usually in charge. (TB-MA)
- 760 WCHP NY Champlain - 10/21 1604 - With WVNE nulled. Good with syndicated *Talk Back* show with Bob Larsen. Talked about President Clinton and took phone calls from listeners. (TB-MA)
- 920 CJCH NS Halifax - 10/23 1925 - With PSA, ID "Metro's favorite oldies, CJCH", Atlantic time checks. (DS-DE)
- 950 WROL MA Boston - 10/23 1657 - Portuguese program, ID in English, good. (DY-CT)
- 960 WEAV NY Plattsburgh - 10/24 1750 - On top with ad for *Adirondack Chevy Dealers*, ID as "B-100" for FM. (DB-DE)
- 970 WFUN OH Ashtabula - 10/1 1935-1955 - Oldies, three in a row before break, ID. Strong, wiping out usual WWDJ. (RH-NJ)
- 990 WRMM NY Rochester - 10/1 2000 - Minor league hockey game. (RH-NJ)
- 1120 WKQW PA Oil City - 10/23 1725 - Good with ID "Oil City-Franklin", pop music. (DS-DE)
- 1160 WSKW ME Skowhegan - 10/28 1747 - Tuned in to hear "...on WSKW, Skowhegan" into music which was lost in the jumble, later heard sports news, but don't know from who. First time heard, now for 870... (DB-DE)
- 1200 WKRL NY North Syracuse - 10/20 1901 - Local ads, "K-rock", "WKRL-AM/FM" ID, very good. (DY-CT)
- 1250 CHWO ON Oakville - 10/23 1714 - With promo, ID "Bringing radio into the 90's", old standards music. (DS-DE) (Interesting slogan with that format - db)
- 1260 WPHB PA Phillipsburg - 10/21 2004 - In WCHV null with high school football, ID. (DS-DE)
- WCHV VA Charlottesville - 10/21 1958 - Atop with football, ID Rare at night. (DS-DE)
- 1310 WMTG MI Dearborn - 9/17 2003 - Fair with Motown oldies. Heard in car on Highway 6 between Hamilton and Highway 401. No sign of CIWW. (RH-ON)
- 1320 WARA MA Attleboro - 10/21 1925 - Clear in WJAS null with high school football, ID. (DS-DE)
- 1350 WOYK PA York - 10/4 2350 - CW, Loretta Lynn singing *Don't Come Home A-Drinkin'*. (RH-NJ)

- 1380 WKDM NY New York - 10/27 1848 - This regular pest was noted with EE talk, ads for KC Rentals (with 212 area code), and jg type music in program which seemed to be called *Irish Today*. Don't ever remember hearing EE here before. (DB-DE)
- 1450 WTSA VT Brattleboro - 10/20 1919 - "Sports Radio 1450 WTSA" over pack, good. (DY-CT)
- 1470 WMMW CT Meriden - 10/4 2355 - Great version of *People Will Say We're in Love*, duet, unannounced singers. ID "WMMW Meriden-New Haven". Loud and clear, news at 0000. (RH-NJ)
- 1570 WQTW PA Latrobe - 10/21 2015 - Very strong with high school football, gave ID for WLSW (FM) only - no mention of AM. (DS-DE)
- 1580 WNZT PA Columbia - 10/21 1758-1800 - Sign-off announcement. "Conversation Radio," off with *Happy Trails*. (DY-CT)
- WDAB SC Travelers Rest - 10/16 2000 - Popping up with wonderful ID at sign-off while on I-83 north of Baltimore. Haven't heard this one for a while. (JW-MD)

### OTHER STUFF

- 530 WECX FL St. Petersburg - 10/23 1200 - *Eckerd College* first heard by David Sharp. Lutz as an UNID during brief downtime period from his local (north end) TIS. David called me, and the signal was fair level with a wide variety of rock (Stone Temple Pilots, Soundgarden, Eagles), man and woman DJs sounding very unprofessional but far more enthusiastic than all existing (commercial) radio stations. I attempted a brief DFing session the following late afternoon, with signal looping roughly towards SSE from my points. Passed this info along to David Potter who, on 10/24 midday, tracked the station down via auto and IDed it using these faux calls. Potter subsequently called the station (phone number announced on the air) and they confirmed operation. I called the station late afternoon 10/24 and was told that "WECX" has existed for maybe four or five years as a carrier current campus station, but very recently upgraded their transmitting and studio equipment. Despite the plethora of local 530 TIS's, this signal obviously is getting out well. Sharp's QTH is a linear 35-ish miles from the transmitter. Caveat: while the signal is audible by us three DXers, we're all using high-end equipment and, in some cases, antennae. Likely (hopefully) the station isn't going much - if any - beyond carrier current allocation. A very enjoyable log and listening! (TK-FL)
- 530 TIS FL - An update/summary of the TIS info reported in Vol 62, No 4: both DOT *Veterans Expressway* (Tampa) TIS's have moved from 1610 to 530, and likely will vanish soon. The NE St. Petersburg TIS's continue on 530 and 1610. (TK-FL)
- 530 WQVE367 MA - *Massachusetts Turnpike* highway advisory radio system. Mentioned their many services provided to make their patrons travel on their highway as pleasant as possible. (TB-MA)
- 1610 WNHQ550 NC New Bern - 10/20 - *New Bern Ferry* Information Station noted off both AM and PM during commute through area. Transmitter and antenna still in place, so possibly now seasonal. (MH-NC)
- 1620 KPD581 CT Windsor - 10/24 @ 0126-0155 - Tentatively the station noted with man and woman announcers. Brief tone/beep and into "The Connecticut Department of Transportation reminds motorists...up to \$2000 a year...driving alone...". Tape loop approximately 1:20 minutes long. Very poor with heavy fades and QRM from station with vocal ("rock") mx, and later, UNID station with phone numbers. Poor at best, but VERY WELCOME!! (MH-NC)
- 1620 TIS UNID - 10/24 0340-0405 - With man announcing phone numbers with "350" prefix: 2418, 2435, 3455, 3441 and others, I believe. One mention of "transmitter" but don't know if this station or another. Looping basically NNE-SSW. Seem to recall a station with "350" phone numbers being reported last season, but can't immediately find info. Poor, only heard infrequently. (MH-NC) (Last year it was reported to be WNWZ910, Bensenville, IL - db)
- 1620 ?? UNID - 10/24 0126-0155 - Very infrequently over/under *Connecticut Department of Transportation* station; and stronger 0340-0405. Mostly rock music (vocals). No ID across hour. Seemed to loop in basically same direction as *Connecticut Department of Transportation* station, and fade pattern about the same. Pirate? Test for band expansion? What? No announcements heard. NOTE: On each of the stations on 1620, I believe that at some point each was QRming each other - so possibly 3 stations. (MH-NC)
- 1630 TIS FL Jacksonville - 0718-0733 - NOAA *Weather Radio* (162.55 MHz relay). Very weak traces of EE man repeating cart, audible in LSB to escape fishing beacon stuff above. This station discovered by David Crawford, Gainesville, in mid-October on skywave reception at 0735. More info pending, hopefully. (TK-FL)

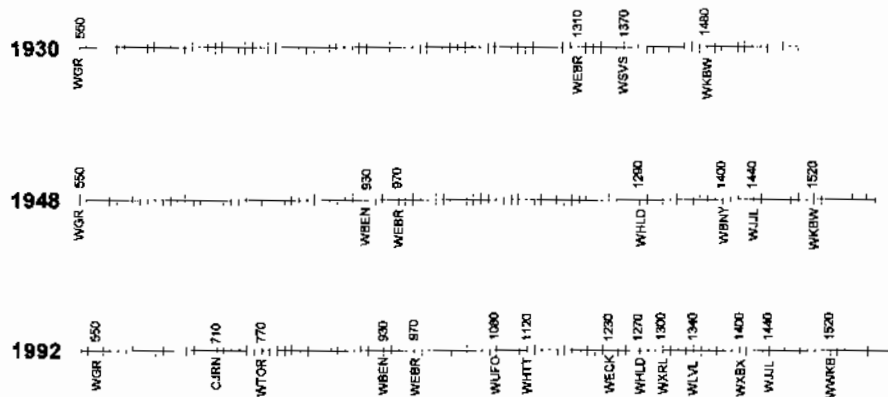
## REPORTERS

**TB-MA** Tom Beaton, Manchester, MA: Drake R-8, Mini-MWDX-5X phasing unit, 2-30 meter sloping antennas  
**MB-IN** Mark Burns, Terre Haute, IN: Drake R-8, Quantum loop, 80' long wire  
**BC-NH** Bruce Conti, Nashua, NH:  
**MD-MA** Marc DeLorenzo, Framingham, MA: Clarion car radio  
**SF-TN** Steve Francis, Alcoa, TN: Realistic TRF  
**JH-NJ** John Hanz, Old Bridge, NJ: Sony 2010  
**MH-NC** Mike Hardester, mike\_hardester@zapbbs.win.net, Jacksonville, NC: ICOM R-70, Radio West 22" ferrite loop  
**RH-NJ** Rich Harrison, Hewitt, NJ: Grundig Satellit 3400, SM-2, Select-a-tenna  
**RH-ON** Russ Horton, Mississauga, ON:  
**KVJ-GA** Karl V. Jeter, Lawrenceville, GA: HQ-150, AFS-803A, 4' loop, Quantum loop, MWT-2  
**TK-FL** Terry L. Krueger, Clearwater, FL: NRD-5355, HQ-180A, ICF-2002, Superadio III, dipoles x 2, Scotka ferrite loop  
**RM-CT** Ron Musco, Poquonock, CT: R-390A/URR, two long wires, noise reducing transformers  
**DS-DE** Dave Schmidt, New Castle, DE: HQ180A, SM2, Superadio II  
**RS-MO** Rocky Stone, Branson, MO: R-2000, SM-1  
**RT-NC** Robert J. Tiara, Hendersonville, NC: R-5000, 24" amplified ferrite loop, many longwires  
**JW-MD** Jim Weber, DXing on I-83 in MD:  
**DY-CT** David Yocis, Darien CT: R-71A, 130' LW  
**DB-DE** Dave Braun, Wyoming, DE: R-5000, Quantum loop

## Now and Then John D. Bowker

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

### BUFFALO-NIAGARA FALLS MARKET



**DID YOU KNOW** that the United States has been assigned four prefix letters to be used for all its radio operations, A, N, K and W. All Canadian stations start with the letter "C" but there are limitations on the 2nd letter used by Canadians. These assignments are by the International Telecommunications Union (ITU), an arm of the UN

## International Jim Renfrew JimRenfrew@AOL.com

### DX Digest

61 Wilcox Street  
Rochester, NY 14607-3832

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

I'll start out with some notes about e-mail submissions. Thanks to all those who follow the exact logging format shown below; it saves me a lot of time. Some of you have tried to attach files to your e-mail for me to download, but so far I have only been able to read one of the three that has been sent (and that only after a lot of messing around). So please, if you can, paste up your loggings as e-mail messages and I will be able to use them quickly. Keep an eye out for a change of e-mail address during the next few weeks. We will be dropping AOL for Delphi. Following Dave Braun's lead, I will show your e-mail address at the end of the column as requested with EACH submission. I just won't be able to remember who has given the OK in previous weeks!

Welcome to new reporter George Holland, who has a reply to Steve Whitt's request concerning St. Pierre and Miquelon. I think Brent Taylor is new to IDX, too, welcome! And Brent adds New Brunswick to our list of 1994-95 listening sites.

#### TRANS-ATLANTIC DX

- 531 ALGERIA Ain-el-Baida, OCT 24 0312 - AA vocal // 891; in jumble. [Connelly-MA]  
 531 SPAIN, OCT 26 0403 - good (over others) with woman in SS. [Connelly-MA]  
 549 ALGERIA Les Trembles, OCT 26 0404 - man in AA; fair in CFNB slop. [Connelly-MA]  
 558 SPAIN RNE-5 synch stations, OCT 26 0310 - Definite in WFIL splash with program of mostly pop music. [Dangerfield-PA] OCT 26 0406 - SS talk; poor to fair. [Connelly-MA]  
 585 SPAIN / unID, OCT 26 0410 - SS vocal & talk mixed with possible AA (Tunisia?); low-pitched growl present, WBNW-590 phased. [Connelly-MA]  
 621 CANARY ISLANDS Santa Cruz, Tenerife, OCT 24 0315 - man & woman in SS; very good. OCT 25 0427 - SS talk, bouncy vocal; fair to good. [Connelly-MA]  
 639 SPAIN La Coruna et al., OCT 25 0426 - SS talk; fair. [Connelly-MA]  
 657 SPAIN RNE-5 Madrid, OCT 26 0310 - Not very clear signal with musical program // to 558 kc. [Dangerfield-PA]  
 666 PORTUGAL Lisboa, OCT 26 0413 - PP discussion, then music; good. [Connelly-MA]  
 729 SPAIN Oviedo, OCT 26 0415 - SS talk; poor in slop. [Connelly-MA]  
 738 SPAIN Barcelona, OCT 24 0316 - SS talk by woman; good. OCT 26 0415 - man in SS; good. [Connelly-MA]  
 756 SPAIN Bilbao, OCT 25 0425 - SS telephone conversation; fair to good. OCT 27 0417 - slow SS talk by man; good. [Connelly-MA]  
 765 SWITZERLAND Sottens, OCT 26 0416 - man & woman in FF; good. [Connelly-MA]  
 774 SPAIN synchros., OCT 24 0318 - man & woman in SS // 738; good. OCT 26 0417 - SS vocal // 738; to good peaks. OCT 27 0416 - SS song adapted from "The Happy Wanderer", then man in SS; excellent. [Connelly-MA]  
 837 CANARY ISLANDS // SPAIN, OCT 27 0419 - man in SS; fair to good o/ others. [Connelly-MA]  
 837 AZORES Barossa, OCT 26 0419 - flute jazz, then man in PP; LOUD. SS station way under. OCT 27 0419 - man in SS; fair to good over others. [Connelly-MA]  
 855 SPAIN Murcia et al., OCT 25 0420 - SS talk good over fast SAH, bits of second station audio. OCT 27 0420 - man in SS; good. [Connelly-MA]  
 873 SPAIN Zaragoza, OCT 26 0422 - SS teletalk to good peaks. [Connelly-MA]  
 891 ALGERIA Algiers, OCT 10 2308-2314 - Fair with AA vocal music accompanied by flute, violins and drums; i kHz het from unknown domestic on 890; new local WBMA-890 Dedham had signed off earlier. [DeLorenzo-MA] OCT 25 0418 - female AA talk & vocal; loud, over low-pitched growl [Connelly-MA] OCT 25 2222- 2229 - Good with AA vocal music accompanied by violins, flute and drums; no domestic interference, not even a het! [DeLorenzo-MA] OCT 30 0510 - loudest TA during sluggish conditions - male AA vocal; good to excellent. [Connelly-MA]  
 918 SPAIN Radio Intercontinental Madrid, OCT 26 0323 - Man in SS talking; maybe with another guy. [Dangerfield-PA] OCT 26 0425 - fast SS talk by man; fair to good. [Connelly-MA]  
 918 SLOVENIA Ljubljana, OCT 26 0325 - Rather strong but below Madrid. Playing soft pop music with a fem vocal at 0327. [Dangerfield-PA]  
 936 SPAIN, OCT 27 0422 - SS talk; poor in slop. [Connelly-MA]  
 954 SPAIN Madrid, OCT 25 0415 - man in SS; fair to good. [Connelly-MA] OCT 27 0015 - Excellent! Insurance ad and telephone talk program in Spanish, phone numbers 4480560

- and 4480561, report sent. [Conti-NH] OCT 27 0423 - man in SS with interspersed music; good. NOV 1 0447 - bits of SS; tough with local WROL - 950 back on the air at night. [Connelly-MA]
- 999 SPAIN Madrid, OCT 27 0423 - excited SS talk; to good peak. NOV 1 0445 - man & woman in SS; poor. [Connelly-MA]
- 1044 SPAIN San Sebastian, NOV 1 0444 - fast SS talk by man; poor in WEVD slop during below-normal DX conditions. [Connelly-MA]
- 1125 CROATIA Deanovec, OCT 26 0130 - Seemed // to 1134 but not nearly as strong with 2 men talking in language like Croatian. Not SS. But at 0400 the news was read by a woman while on 1134 a man was reading it. [Dangerfield-PA]
- 1134 CROATIA Zadar, OCT 26 0130 - Strong with 2 men in Croatian and seemingly // to 1125. Very good at 0300 with soft music and female vocals. Then at 0400 a deep voiced man gave the news for 5 minutes. Then, somber music. [Dangerfield-PA]
- 1152 SPAIN, OCT 26 0434 - SS talk by man; fair to good. [Connelly-MA]
- 1349 MAURITANIA Nouakchott, OCT 26 2135 - female AA vocal & strings; to fair peak. [Connelly-MA]
- 1557 FRANCE Nice, OCT 25 0544-0600 - Good and alone with WQEW off the air, instrumental jazz type music, male vocal in FF. [Braun-DE]
- 1566 UNID, OCT 29 0243 - Strong carrier, and at 0245 a chime sort of interval signal. Faded before I could develop more info. [Dangerfield-PA]

*Ben speaks:* "Got the HQ-180 back on Oct. 24 and am back in business. It is running fine. Unfortunately, reception the last couple of days has been the worst of the young season, and yesterday was the low point in number of TA signals noted in an evening of tuning, with only about 6 weak hets and a little audio from 684."

*Jean luhla:* "There seemed to be markedly auroral conditions on Saturday night, OCT 29. I had been expecting this, but it came a day earlier than I would have liked because I had already decided to go on a solo DXpedition to Renewals on Sunday. Anyway, I still managed quite a few logs from that one-evening trip, but it will still take me a few more days to get them ready. I can tantalize you by letting it slip that I did bag VOA Botswana on 909, and I IDed a 1 kW Argentinian! I will be away from St. John's next week. I will be going where America fears to tread: Cuba. I'll try to get a scan for you, Bruce."

#### PAN-AMERICAN DX

- 535 TURKS & CAICOS, OCT 26 0404 - like a local with SS religion. [Connelly- MA] OCT 31 0700 - Excellent, IDs in Spanish and English, "Radio Visión Cristiana es la emisora de Dios" jingle, then reading and prayers in Spanish through 0730, no DX test tones or code IDs, report sent anyway. [Conti-NH] NOV 3 0250-0300 - In SS with religious music and weather report of 52 degrees. Then full ID @ 0300 in EE as follows, "Broadcasting from Patterson, New Jersey, by satellite to the world, this is WWRV, New York, 1330 AM, with Radio Visión Cristiana Internacional, 535 AM South Caicos, Turks and Caicos Islands, British West Indies." Then into long SS jingle at the top of the hour. Station was solid S9 to +10db the whole time. [Taylor-NB]
- 540 COLOMBIA R. Auténtica, Bogotá, OCT 30 0658 - Excellent! Christian programming in Spanish, ID as "la autentica emisora del pueblo crisiano". [Conti-NH]
- 550 VENEZUELA Mundial, Caracas, OCT 30 0650 - Good, announcement of terminal numbers for destinations including California and Argentina, mentions of Zulia, Mundial IDs. [Conti-NH] OCT 31 0028 - Booming in with SS ballad and dance music, Mundial ids and Caracas mentions. [Beaton-MA]
- 555 ST. KITTS Basseterre ZIZ, OCT 26 0405 - weak audio sounded like a relay of a Trans-World Radio EE religious broadcast. On other days at this time, they've had open carrier only. [Connelly-MA] OCT 27 0040-0050 - with man giving announcements in accented EE. Seemed to be some kind of community announcements, but could only understand a few words here & there. Did get a definite mention of Nevis. Fair for this short period, but quickly faded down to threshold level & remained there during frequent rechecks. [Moore-IA] OCT 31 0252 - Better than usual with U.S. pop music including a hit by Lionel Ritchie. Into a sports report. [Beaton-MA]
- 570 CUBA R.Rej, OCT 30 0705 - Excellent, RR code IDs and syncopated clock, poor quality audio. [Conti-NH]
- 580 MEXICO Piedras Negras OCT 27 0000-0022 - With "Rancherita del Aire" IDs, ranchera music (natch), and loooong ad string including one for a pawnshop across the Rio Grande in "Tejas" that has a large selection of rifles, pistols, misc firearms, and knives at very cheap prices. Mmmm... might be a good reason to avoid crossing the border at Piedras Negras if one is traveling that way! Great signal covering up all the QRM, and stayed in during several

- rechecks through 0130. [Moore-IA] (This is the one that WIBW has filed complaints with the FCC for not dropping power at sunset - pls.)
- 590 MEXICO Rio Bravo OCT 27 0023-0032 - With ranchera music, several IDs as "XEFD La Consentida, mucha musica". Good, but quickly faded down. [Moore-IA]
- 595 DOMINICA DBS Radio OCT 27 0050-0130 - Apparent listener phone-ins until 0100, but couldn't understand anything - either heavily accented English or perhaps the local French creole. At 0100 into a program of soft rock with a more easily understood announcer. Picked out some song titles & a clear time check. Possible ID. Have to go back over tape. Signal ranged from poor to good, largely depending on splatter from semi-local WMT on 600. [Moore-IA]
- 600 CUBA, OCT 26 0411 - Rebelde loud with SS documentary on Cuban dance. NOV 1 0504 - SS vocal // 710; to good peaks over low-pitched rumble. [Connelly- MA]
- 610 MEXICO XEBX Sabinas, OCT 31 0209-0219 - With ranchera music & several ads mentioning Sabinas. Fair & on top. [Moore-IA]
- 620 UNID OCT 27 0013-0015 - Man with SS talk briefly on top here. Could have been Nicaragua, which is commonly heard here, but there was a mention of Matamoras and it felt more like a Mexican. Did not reappear in later rechecks. [Moore-IA]
- 620 NICARAGUA R.Nicaragua, Managua, NOV 1 0400 - Good! ID "Transmíte con cincuenta mil wats de potencia, la nueva Radio Nicaragua con sonido stereo AM, unica de la cultura nacional, sintonia con llamada en todo el pais . . .", then "ciento veinte minutos de música" and Central American music, my first ever from Nicaragual [Conti-NH] (Nice catch, hard because of domestic SS in New Jersey - Jim)
- 640 VENEZUELA Ondas Portenas, NOV 1 0026 - Good with SS radio drama and Radio Portenas ID at 0030. [Beaton-MA]
- 650 COLOMBIA Bogotá HJKH, OCT 31 0411 - mellow SS vocal; totally dominant. [Connelly-MA] NOV 3 0315 - With 2 men with SS IDs and up-tempo music. [Taylor-NB]
- 655 EL SALVADOR Radio Nacional San Salvador, OCT 31 0032-0045 - Man with talk with lots of mentions of El Salvador, then into romantic pops. Fair with splatter. [Moore-IA]
- 670 CUBA - R. Rebelde, OCT 29 0319 talk by man, fair-poor in WMAQ null [Yocis- CT]
- 670 VENEZUELA YVLL Caracas, NOV 2 0230 - Good with SS music, doorbell sound effects and several Notirumbos mentions. [Beaton-MA] NOV 3 0330 - With full ID and man reading news in SS. News stories separated by 4-note chimes. Very loud in peaks. [Taylor-NB]
- 690 ANGUILLA University Network, St. John's, OCT 27 0200 - Fair, many IDs as "The Lord's University Network" with Dr.Gene Scott, 24 hours a day, 800 and 818 (Los Angeles) phone numbers mentioned, jazz instrumental followed by preaching, over unID buzzing/jammer. [Conti-NH] OCT 30 0445 - Great with Dr. Gene Scott's religious show. Jammer and CBF nullled. [Beaton-MA]
- 710 CUBA - R. Rebelde, OCT 29 0320 SS talk in WOR null (40 miles away!), fair // 670. [Yocis-CT] NOV 1 0504 - uptempo SS vocal // 600; loud, totally killing WOR. [Connelly-MA]
- 720 VENEZUELA R.Oriente, Porlamar, OCT 30 0506 - Good, "En Radio Oriente, la senal de Venezuela, una seis minutos" time check and salsa music. [Conti-NH]
- 730 CUBA R.Progreso, La Fe, OCT 30 0500 - Poor, characteristic musical scales of top of the hour ID heard through CKAC and an unID Latin American station. [Conti-NH]
- 740 VENEZUELA R.Caroni, Puerto Ordaz, OCT 30 0350 - Good, Radio Caroni jingle, soca song by La Banda Show, over R.Progreso-Cuba. [Conti-NH]
- 750 VENEZUELA, Radio Caracas, NOV 3 0333 - With man and news in SS and "Radio Caracas" ID @0334, then into phone-in talk show. [Taylor-NB]
- 760 COLOMBIA - RCN Barranquilla, OCT 27 0412 - "R. Suceso, RCN" ID's, atop channel. NOV 1 0458 - RCN mentions, fast SS talk mentioning several Colombian cities, local "RCN Barranquilla" ID; loud / dominant. [Connelly-MA] OCT 29 0333 SS news, RCN ID, good in WJR null. [Yocis-CT] OCT 30 0329 - Good, jingle and ID as "La primera cadena de radio de Colombia, la radio grande de las americas!", then "las noticias en RCN". [Conti-NH] NOV 2 0313 - // 770, good with SS tele-talk (770 was in much better). [Beaton-MA]
- 760 CUBA R.Rej, OCT 30 0335 - Poor, surfaced briefly over RCN-Colombia with RR morse code ID and syncopated clock. [Conti-NH]
- 760 MEXICO XEABC Mexico, NOV 1 0027-0044 - Presumed with Mexican news. Fair, over/under San Antonio station. [Moore-IA]
- 770 COLOMBIA RCN, Bogotá, OCT 30 0024 - TC as 7:24, ID and "Radio-Expreso R- C-N" news. Zero audio from WABC, SIO 343 [Burnell-NF] OCT 30 0340 - Fair, "la música Colombiana", // 760, mostly under WABC. [Conti-NH] OCT 30 0407 - Good with political talk. ID as "RCN, La Radio de Colombia", // 1000. [Beaton-MA] NOV 1 0452 - RCN ID, SS talk // 760; good, atop WABC. [Connelly-MA]



- 780 VENEZUELA R. Coro (YVMN), Coro, OCT 30 0028 - Read list of birthday names ("Cumpleaños"), ad string including for store at Plaza Zamora, and a supermercado in Falcon. CKDA reduced in loop's null, SIO 232 [Burnell-NF]
- 800 NETHERLANDS ANTILLES, Bonaire PJB, OCT 31 0340 - Great with Transworld Radio programming. [Beaton-MA]
- 810 COLOMBIA Bogotá HJCY, OCT 31 0424 - CARACOL ID mixed with CJVA/WGY. [Connelly-MA] NOV 1 0046-0052 - News // 5075 SW. Poor but on top of mess. [Moore-IA]
- 820 VENEZUELA R. Guadalupe (YVXG), Coro, OCT 29 2354 - LA pops, "Guadalupe" jingle. Just about the only non-local audible at this time. [Burnell-NF]
- 830 ST. KITTS Basseterre, OCT 27 0419 - preacher in EE; good. [Connelly-MA] OCT 31 0347 - Very good with Trinity Broadcasting religious programming. [Beaton-MA]
- 840 ST. LUCIA R. Caribbean Internat., Carriès, OCT 29 2357 - Caribbean- flavored music and announcements in Creole. Many dedications were for many people with anglophone names. I am no expert on Creole, but this type seemed much less mutated than Haitian Creole -- I can understand quite a bit of this. SIO 243 [Burnell-NF]
- 840 UNID, NOV 3 0339 - Sleepy acoustic guitar ballad music in SS, faded up for 5 minutes and then descended into the 850 slop. Maybe XEXXX?. [Taylor- NB] (More likely Cuba or Colombia, I think - Jim)
- 860 CUBA, OCT 27 0421 - Reloj program briefly atop. [Connelly-MA]
- 880 CUBA R.Progreso, Pinar del Rio, OCT 27 0135 - Fair, Spanish oldies style rock music, // 740. [Conti-NH]
- 900 VENEZUELA Ritmo 900, Maracaibo, OCT 25 2335 - Fair to poor, "Ritmo Novecientos" ID and salsa music, mixed with CKTS and other domestic stations. [Conti-NH]
- 920.6 COLOMBIA Emisora Fuentes Cartagena, OCT 31 0110-0120 - With election totals, mentions of Cartagena, possible ID. Poor. [Moore-IA]
- 940 MEXICO XEQ, Mexico, OCT 30 0605 - Excellent! Long ad string including ads for Los Yonics and Revista Prevención, then anthem followed by full-data ID "XEQ... con cincuenta mil vatios de potencia... ciudad de Mexico, amor en tu frecuencia", over Punto Fijo-Venezuela. [Conti-NH]
- 960 CUBA R.Reloj, Cienfuegos, OCT 30 0617 - Good, usual syncopated clock and RR code IDs. [Conti-NH]
- 1000 COLOMBIA RCN (HJAQ), Cartagena, OCT 24 0045 - Over/under CKBW with news hype, ID, news item about bombing in Colombo. SIO 332 [Burnell-NF] OCT 26 2345 - Excellent! Ad for Colgate after eating, and Gran Hora news and information program. [Conti-NH] OCT 31 0058-0107 - Presume the one with HJ election coverage. Strong & on top. [Moore-IA]
- 1030 MEXICO XEQ R Centro, Mexico DF, OCT 25 0635-0637 - Timecheck, ID, commercial and then signal faded out. ID as follows: "Somos Radio Centro, transmitiendo las 24 horas para el Valle de Mexico, con la mas alta tecnologia musical. Desde ... Radio Centro ... XEQ, una estacion del Grupo Radio Centro. [Lazarus-LA]
- 1060 COLOMBIA Radio Delfin (HJLY), Riohacha, OCT 27 0224 - LA ballads, TC's about 2 min fast, 0228 fanfare and full ID, faded away shortly thereafter. SIO 243 [Burnell-NF]
- 1080 VENEZUELA YVQT Barcelona, NOV 1 0107 - Fair with SS music. "Radio Barcelona" ID. [Beaton-MA]
- 1130 COLOMBIA Emisora Riomar Barranquilla, OCT 31 0041-0045 - With live broadcast from some sort of celebration. Mentions of Barranquilla & TODELAR Briefly on top with fair signal. [Moore-IA]
- 1140 VENEZUELA Margaritena 1140, Porlamar, OCT 30 0235 - Poor, salsa music and Margaritena 1140 IDs, under/over WRVA. [Conti-NH]
- 1140 COLOMBIA UNID, OCT 31 0045-0105 - Something here with vote totals from Colombian departmental (state) elections. Mixing with WRVA & a ranchera station (probably the below). [Moore-IA]
- 1140 MEXICO XEMR Monterrey, OCT 31 0202-0207 - With long ad string & ID. Said 50 kW, which matches the WRTH but not the IRCA Mexican log. Mixing in mess. [Moore-IA]
- 1160 BERMUDA Hamilton VSB, OCT 31 0423 - // 5975, great signal, same signal level as the SW parallel! BBC Newsdesk program then announced 1995 BBC playwright competition contest 1180 CUBA R. Taino, Villa Maria, OCT 30 0050 - Terrible mixture of 2 stations in SS (other may be R. Martf) both mentioning Cuba and playing some Cuban music. Clear Taino ID's in SS and EF at 0100. SIO 322 [Burnell-NF]
- 1350 PUERTO RICO R. La Wega (WEGA), Vega Baja, OCT 30 0130 - Mix of 2 SS stns, this one seemed to have a sporting event "atravez de Radio La Wega" and another ID a minute later. SIO 222 [Burnell-NF]

- 1375 ST. PIERRE, OCT 15 0155 - Heard series of low notes being repeated, then at 0200 a man in FF, followed by vocal with guitar accompaniment. Was much stronger at 0355 and has been at old level most nights since. [Dangerfield- PA] OCT 28 0250 - Male voice in FF until 0303, then music with strong beat, followed by male voice in FF at 0303:30. No ID heard, relatively poor reception, faded on the hour, naturally. But who else broadcasts FF on 1375? [Holland-NY]
- 1410 COLOMBIA HJFS Honda, SEP 16 2352-2430 - LA pop music, ID in part as "Radio Cadena Nacional ...", poor to fair. [Trelford-JAM]
- 1550 COLOMBIA Radio El Sol (HJCB), Barranquilla, OCT 27 0145 - Two South Americans fighting it out, one with a lot of accordion music finally had a copyable ID at 0214 "Radio Cadena Nacional ... Radio El Sol". SIO 232 (Second station sounded more interesting with less familiar style of music, possibly with slogan "Super Radio", but I was nevertheless unable to ID it.) [Burnell-NF]
- 1610 ANGUIILLA The Valley, OCT 27 0430 - fund-raiser show with big-band jazz, including "American Patrol". Phone number of 1-800-338-3030 given "for our listeners in the southeastern USA". [Connelly-MA] OCT 30 0244 - Local-like! With the Peoples Gospel Hour show. [Beaton-MA]

## TRANS-PACIFIC DX

- 567 JAPAN JOIK Sapporo, OCT 22 1416 - Fair with man, woman in JJ talk, into vocal music. [Woods-OR]
- 657t NORTH KOREA, OCT 19 1420 - Fair with choral music - many voices - singing patriotic-sounding song. Man speaking Asian language. [Woods-OR]
- 670 HAWAII KPUC Hilo, OCT 22 1425 - Fair with football talk over/under KBOI music. [Woods-OR] 774 JAPAN JOUB Akita, OCT 19 1443 - Very good with Chinese language lesson. Readable with the ICF-2010 on its internal loop antenna. A possible catch inland around sunrise. [Woods-OR]
- 850 HAWAII KHLO Hilo, OCT 22 1418 - Good with C&W, ID, "Today's country music KHLO". This continues to be the easiest HI, after KOA fades out. [Woods-OR]
- 1287 JAPAN JOHR Sapporo, OCT 17 1434 - Good with man, woman speaking JJ. Much laughter. JJ commercial station. [Woods-OR]
- Jack speaks:* "TP has slipped this month. Japan is still pretty good around sunrise, but there's been nothing readable DU. Hawaii rates about fair."

## STATION NEWS

- SPAIN: Radio ELX/Elche now 1539 kHz (ex 1584) since OCT 2. [J. Brunet in PLAY-DX #808]
- A current list of MW stations in Spain prepared by J. Brunet in Cataluña may be obtained from the NRC Publications Center; enclose payment plus tax for 3 pages.
- VENEZUELA: LV Del Centro 1510 new slogan "La Informativa 15-10" [F. Viloria in PLAY-DX #808]
- QSL INFORMATION
- ALBANIA: Lushnje 1395 full data transmitter card for TWR Lushnje in 18 days for 2 IRCs and EE report. [Straus-NJ]
- CUBA: CMKO 1110 - address as in WRTH, but letter from one of the staff (title not given) was his home address - Calle E, No. 22, Reparto Santa Rema, Poblado de Baguano, CP 82500, signed by Emilio Hernandez Leyva. [Trelford-JAM]
- DOMINICAN REPUBLIC: HIBG 1160 - address as in WRTH, and also Calle Sanchez No. 64, phone 809-582-3429, signed by Orlando Jerez, Director. [Trelford-JAM]
- MEXICO: XENQ 640 La Voz de la Provincia, Tulancingo; stamped and signed prepared card, personal letter, 3 CDs of Mexican music, brochures about station and bumper stickers by Airborne Express 17 days after follow-up and SASE and 4 months after original report. Station appears to be using slogan "Radio Tulancingo", perhaps in addition to "La Voz de la Provincia"; v/s L. Alfonso Medina G., Contador de XENQ, Radio Tulancingo S.A., Plaza de la Constitucion y Manuel F. Soto, Tulancingo HGO. [Lazarus-LA]

## CONTRIBUTORS

- (@ = e-mail submission)
- @Dave Braun, Wyoming, DE: R-5000, Quantum loop. [DPHT10A@Prodigy.com] @Jean Burnell, St. John's NF: Icom IC-R71A; 30-foot random wire, or RTL-1 with MW-DX5. [jburnell@kean.ucs.mun.ca]
- @Mark Connelly, WA1ION, Billerica MA, Drake R8, noise-reduced sloper (approx. 37 m) and 30 m. single-turn horizontal loop; phased with DL-1 phasing unit to Mini-MWT-3 regenerative tuner/preamp.

@Bruce Conti, Nashua NH; ICF-2010 with Kiwa filter upgrade, MWDX-5, 30-m longwire, 23-m southeast sloper.

@Ben Dangerfield, Wallingford PA; HQ-180, Kiwa Loop. Marc DeLorenzo, Framingham MA; Clarion Car Radio. George Holland, Latham, NY; DX 440, barefoot. Henry Lazarus, New Orleans LA.

@Don Moore, Davenport IA; Drake R-8 & two 400' mini-beverages.

@Elliot Straus, Toms River NJ.

@Brent Taylor (VE1JH), Doaktown NB; Yaesu FRG7 & 60' sloper pointed North.

Don Trelford, St. Ann's Bay, JAMAICA. Jack Woods, Waldport OR; Sony ICF-2010, ANL-1 Outdoor Loop, Martens Loop.

@David Yocis, Darien CT; GE Superadio III (temporarily)

## Radio Roundup

Pete Kemp (KZ1Z) [PeteKZ1Z@AOL.com](mailto:PeteKZ1Z@AOL.com)

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*News of the radio industry, of interest to DX'ers*

Greetings all ... Blizzards, earthquakes, floods and more have people turning on AM radio more often to obtain the latest round of emergency information and activity/school cancellations in these areas. Expanded newscasts, early sign-ons, and/or cut-ins from a station's normal syndicated fare have become common place this winter in the northeast. It is interesting to note the degree of computerization in keeping tracking of everything, even at the local station level. Many stations have even coordinated their databases with local TV stations for cross promotional purposes. On the TV side, the weather has become the news, instead of just a adjunct to it. Thus local TV stations have pulled out all the stops covering such events. The latest fad is the CNN/ESPN type squeeze frame, putting the program in a smaller image area, with a vertical band on one side with the station logo/ID and a band across the bottom with a scroll or page flipper announcing closings, delays and other information on a continual basis. One station even added a fourth element, that of a person signing the information. While this additional service for the hearing impaired is to be commended, it does have a tendency to make things a bit visually confusing. On the radio side of things, in the future when RDS comes into play an added element will be available for the listening public ... On a sad note, it really is too bad that the misguided fans of shock jock Howard Stern continue to disrupt talk and news shows. One of the latest idiots to hit the airwaves was a female phoning in to CNN, claiming to be a spokesperson for a fire department, on the air live commenting on the earthquake disaster in Los Angeles. At the conclusion of her "information" she gave an 800 number for additional information. The number was a plug for Stern's Pay Per View sleaze disaster. What a sad commentary of

today's society ... WSVY-AM/FM, in Norfolk, is carrying the Tom Joyner Show from ABC. Tom garnered a lot of ink, in years past, from his daily Dallas to Chicago commuting, doing two radio shows daily. He is truly a man on the go ... Speaking of frequent flyers, ABC has entered into a deal with the In-Flight Phone Corporation to offer twelve channels of audio for airline passengers. The programs will include many of the ABC Networks as well as talk shows from WABC, WGN and KABC. The programs will be transmitted live digitally. One has to wonder if anyone will QSL these stations? hi ... WKRM-1340, in Columbia, SC is dropping sports-talk for Urban Contemporary and a Magic-1340 moniker ... KABC's Dennis Prager is set to put his name on the line with Multimedia Entertainment for syndicated talk show ... Jim Quello, an FCC Commissioner for twenty years, has been selected to receive a Distinguished Service Award from the National Association of Broadcasters ... Morningman Ski Anderson played a nice trick on his PD Cara Stern at WABT, in Chicago. While on the air, he asked her to come in to the studio. She was joined by her boy friend who was waiting with flowers and champagne and ready to ask that all important life-changing question ... she said yes ... Cable TV's The Weather Channel is now on the radio side of things too, suppling weather forecasts to over 80 stations around the country ...

If you would like to contribute to this column, I may be reached at the address above, via CompuServe 72376,2557, Prodigy PFVK52D, InterNet [PeteKZ1Z@AOL.COM](mailto:PeteKZ1Z@AOL.COM), the FIDO system in the Shortwave, Ham or Broadcasting echo areas, The Oracle 1:141/1050, or amateur radio packet, KZ1Z @ KIUOL.CT. So much for now.

## Antenna Experiments - Summer 1994 ... by Mark Connelly - WA1ION

Trying out different antenna systems has always been a good way to get some new stations into the logbook. DX'ers frequently swap around antennas to keep receptions from getting "in a rut". During the summer of 1994, I experimented with several designs. This article covers some of the results.

### I. Loop phased against Whip for Cardioid Pattern

This concept, used commercially in automatic direction finders for pilots, has a long history in our hobby as well. Ron Schatz's Loop - Sense Cardioid Array (LSCA) is one of the better known early designs. His scheme was somewhat tricky to build and to adjust properly, and it did not lend itself readily to in-the-field use. Dallas Lankford's LIL-1 and LIL-3 designs are simpler to use, but are still intended for home-QTH use as the inverted-L sense antenna is not amplified and, therefore, must be at least 15 m/50 ft. long to deliver adequate signal levels.

Many home locations have too much manmade electrical noise for both the sense antenna (wire or amplified whip) and the loop antenna to deliver clean signals. At noisier locations, a possible solution is phasing two noise-reduced wires; another method is phasing a remotely-tuned loop in a quiet area against a noise-reduced wire or against another quiet-area loop at a right angle to the first one. Phased noise-reduced slopers have proved to be the best DX antenna system at my home QTH. Whips and loops pick up way too much noise from TV's and light dimmers in the neighborhood and I do not have sufficient room for Beverages. Encouraging noise reduction results have been obtained with balanced center-fed wire antennas: this is discussed later in this article.

It is on car-based "mini-DXpedition" trips to high-quality, electrically-quiet locations that the loop-versus-whip (or wire) scheme has had the greatest benefit. Therefore, I have customized the improvements with the idea of mounting the loop and sense antennas on the car roof and controlling their tuning by means of DC bias voltages fed from an in-car controller (DCP-1) to the varactor diodes in the tank sections of each of the two antennas. The null, as described in the DCP-1 article, is unidirectional. When a bidirectional null (figure of eight) is needed, the loop can be used alone and when no nulls are desired, the active whip (sense) antenna is used alone.

Although nulls are best when the Q (selectivity) of the loop's tuned circuit is closely matched to the Q of the tuned active whip, and when the "pest" station output levels of the loop and the whip are

comparable, surprisingly good results have been had using an untuned (i. e. broadband) active whip. The loop should be Q-spoiled by approximately 22000 ohms across its L-C tank. The whip's amplifier should have sufficient strong-signal handling capability not to create objectionable spurious responses at the DXer's location when the whip is operated in an untuned configuration. In urban areas, this can be hard to attain. Really good whip amplifiers might be able to handle the RF, but the receiver might kick out spurs due to its own inadequacies. Fortunately, urban areas are not the first choice of most DXpeditioners.

Question: If tuned whips give better results, then why use an untuned one in cardioid pattern generation? Answers: It is very useful to have a broadband active whip as one of the two antennas because it can allow quick bandscanning and parallel-frequency checking. Also, the whip - if mounted properly - allows in-motion DXing and general listening. Exact placement of the whip on the roof may be critical with some vehicles to eliminate ignition noise when the engine is running. On a recent ride out to Rockport (MA), I had the Drake R8 in the car connected to a modified MFJ 1024 whip on the car roof. Both the whip and the R8 were powered from the car's lighter socket. It was enjoyable to listen to loud and clear BBC shortwave for entertainment while driving along Route 128. Reduced knob-twiddling is another benefit to having a broadband rather than a tuned whip involved in a loop-versus-whip scheme. Nulls of as much as 30 dB can be dialed up quickly by tweaking the loop tuning control, a level-balancing pot, and the switch combining the outputs in or out of phase. A 30 dB null is often enough to uncover good DX under pests.

As Dallas Lankford noticed in his LIL-1/LIL-3 research, the nulls created by a loop-versus-wire (or active whip, in my case) setup are broader and, therefore, more effective against "jumpy" high-angle skip than the nulls created by a loop used alone. I have had fun out at beach DX sites recently by knocking down strong 200-mile distant New York City stations to hear co-channel Venezuelans and Colombians. With just the loop, nulls were elusive and had to be "chased" more.

I would recommend the loop-versus-whip setup as the primary system for temporary field operations, especially when land for longwire/Beverage antennas is not available or not permitted to be used. For the greatest versatility, the active whip should be configurable for both broadband and tuned modes. The receiver, antennas, and the

phaser/controller box (e. g. DCP-1) should all be powerable from the car's 12 VDC power as well as from separate battery packs when desired. As my Mini-DXpedition article states, setting up wires at a field site is not always practical. The loop-versus-whip scheme can give you the pick-up characteristics of either antenna operated singly; even better, when you phase the two, you can obtain single-direction (cardioid) nulls normally associated with wires of considerable length.

The DCP-1 can be used for remote loop versus untuned noise-reduced longwire operation if you use a small adapter consisting of a Mini-Circuits T1-6-X65 transformer with DC-blocking capacitors (0.1 nF) on its input and output leads. This DC-blocked 1:1 transformer is placed between one of the DCP-1 input BNC's and the coaxial cable from the noise-reducing wire's field-site 9:1 or 4:1 stepdown transformer. "DCP-1A" is a version of the dual-controller/phaser with a switch and this transformer arrangement installed for such operation. The untuned wire acts similarly to an untuned active whip, although it will sometimes show directional effects that can be beneficial in setting up some nulls.

#### II. "Snake" Antenna

The April 1988 issue of QST Magazine published an article by Doug DeMaw (W1FB) entitled "On-Ground Low-Noise Receiving Antennas". It describes the "snake" antenna which is essentially a long terminated transmission line that got its name from the fact that it is usually placed directly on the ground. Some have even buried the antenna in a trench a few inches below ground. When installed above ground, it is seldom above the 3 m/10 ft. level. Conventional wisdom would indicate that a terminated transmission line "antenna" should act not much differently from a short piece of coaxial cable connected to a 50-ohm dummy load (such as the famous Heathkit Cantenna) located in the shack: little or no signal should be received. Things get a bit more complicated when a transmission line becomes very long - e. g. Beverage length, over 300 m/1000 ft. According to the tests run by DeMaw and others, transmission line leakage does allow antenna-like performance. Although received signals may be weak, superb rejection of local electrical noise and a single-direction peak, like that of a correctly-terminated Beverage, are claimed to be the benefits.

Terminating a Beverage has always been the major hassle in the pursuit of a unidirectional pattern. In the New England states, a common goal is reducing westward pickup (domestic QRM) to get foreign stations from the northeast, east, and southeast.

Ground quality for terminations can range from poor (rocks, sand) to excellent (salt water or marsh). Pounding in ground rods and adjusting a termination resistor over 300 m from the receiving position, even with two DXers linked by walkie-talkies, is not a simple task or even one that, when done, produces the desired result. Running a wire, in the 25 to 75 m length range, after a 560 ohm series resistor at the end of a Beverage can help in situations where ground rod use is impractical. Neil Kazaross, a developer and long-time user of this method, should soon write an article on it and on some of his other experiments including the "Kazaross Antenna". The resistor plus 50 m (approx.) wire scheme yields front-to-back ratios that have a certain degree of frequency dependence; this was noted on the October 1993 Newfoundland DXpedition. (Resistor plus ground rod terminations are not without frequency-related effects on front-to-back ratios either.)

If the snake antenna could achieve Beverage-like gain and unidirectional performance across the 500 to 2000 kHz range, that would be a major step forward. If the idea "flew", it would make the terminated Beverage, as we know it, obsolete. DeMaw's article states that any kind of transmission line, balanced or unbalanced, could be used as long as its far end is terminated with a resistor equaling the proper characteristic impedance for that line and if the receiver is matched to the near end of the line through the correct transformer when using lines which are not 50 ohm unbalanced coaxial. I purchased a 762 m/2500 ft. roll of 120-ohm twisted pair balanced line at the Electronics Superstore, a local surplus outlet in Woburn, MA, specifically for this project.

The snake antenna was checked out in a series of daytime field tests on 7 JUL 1994. I set up operations at the "Nutco" site off of Cook Street in Billerica, MA between the Nutcracker Snacks Co. and the Wheelabrator/Memtek Co. buildings. There is a driveway, well away from the buildings, about 100 m/328 ft. long at the site; this is followed by a dirt trail heading northwestward for at least 400 m/1312 ft. through typical sandy dry-site vegetation (pitch pine, bear oak, sweet-fern, etc.). This site east of the Shawsheen River is less than a mile from my house and is one of the few open-space areas left around here that is suitable for Beverage testing and is free of power lines. When it is claimed by further development, a virtual certainty in 5 to 10 years, I'll have to drive quite a bit farther for such field tests.

I used a steel tape to measure out a 366 m/1200 ft. run of the twisted pair. I cut this

section off from the remainder of the roll and laid it out along the driveway and trail. Tests were tailored to compare signal strengths and directional properties of the twisted pair configured as a snake antenna and as a standard unterminated Beverage. For these tests, I used the Drake R8 receiver powered from the car's 12 VDC lighter jack.

For snake tests, the far ends of the twisted pair wires were connected to a 120 ohm non-inductive resistor (equaling the approximate characteristic line impedance). Measuring the receiver ends of the twisted pair with a portable digital multimeter gave a resistance measurement of about 137 ohms: 120 ohms attributable to the load resistor and 17 ohms due to a total wire run of 2400 ft. (1200 ft. down, 1200 ft. back). The receiver ends of the twisted pair were connected to the secondary (pins 4 and 6, impedance about 100 ohms) of a Mini-Circuits T2-1T-X65 transformer. The transformer primary (impedance 50 ohms) leads were connected to the receiver input (transformer pin 1) and receiver ground (pin 3). The secondary winding center-tap (pin 5) could be connected to receiver ground or left to float: there was little observed difference either way.

For Beverage tests, the snake setup was removed from the receiver and a different scheme was used. The twisted pair wires at the far end were shorted together and the receiver end wires were shorted together. The result was a simple unterminated Beverage of 366 m/1200 ft. To match the Beverage to the receiver correctly, a Mini-Circuits T9-1-X65 transformer was connected to the Beverage on its (approximate) 450 ohm side (pin 6) and to the receiver on its 50 ohm side (pin 1). Receiver ground was connected to transformer pins 3 and 4 (the "bottoms" of the primary and secondary windings).

In both sets of tests, a 50 ohm attenuator was occasionally used ahead of the receiver to observe frequencies that were otherwise pestered by spurs caused by strong local stations on 680 and 1510 kHz.

General scans were made of the medium wave band to get a feeling of directional characteristics and signal strengths, then individual channels were checked and strengths were jotted down on paper. Channels with two or more occupants were useful in directivity determinations.

The first thing that became apparent is that the snake antenna is very lossy. Of course, it's better than a dummy load at the end of a short piece of coaxial cable in the shack, but it was far less sensitive than the Beverage. On the average, differences of 15 to 18 dB, approximately 3 S-units, were seen between the two antennas. I kept on with the testing, despite this obvious failing grade for the

snake, because if its directivity was demonstrably better than the unterminated Beverage, it would still have a "raison d'être". After all, the use of a quiet, high dynamic range amplifier could offset the lossiness.

Both antennas had interesting directional effects. Nulls off the side were very effective in some instances. Stations to the north-northeast (e. g. WNNW - 1110 Salem, NH; WNBP - 1450 Newburyport, MA; WHAV - 1490 Haverhill, MA) were reduced substantially. The positions of the side nulls varied slightly between the snake antenna and the Beverage.

Many stations in NH, VT, and upstate NY were, as expected, doing well as they were in the forward lobe to the northwest. The big remaining issue was "What's happening off the back?". I turned my attention to any evidence of reduction of Boston, South Shore, and Cape Cod stations off the southeast end (back). The hoped-for substantial advantage of the snake wasn't there: at best, only a modest (5 dB or so) improvement in front-to-back ratio was noted by using the snake instead of the Beverage. In many cases, the front-to-back performance of the two antennas was identical.

The directivity tests showed that a snake antenna is not significantly better in back-end nulling than an unterminated Beverage antenna of comparable length. Certainly, in view of its high loss, the snake antenna is not an acceptable substitute for either a terminated or unterminated Beverage in normal circumstances.

The only value the snake might have is in local electrical noise reduction. I had no way to test out this theory. Good noise reducing properties are obtainable from a Beverage worked against a field-site ground rod system (isolated from receiver ground) and fed through a 9:1 (or 4:1) stepdown transformer through coaxial line to a 1:1 transformer at the receiver input. 20 dB or more noise suppression can be provided by this setup: this was demonstrated during DXpedition activities in Cappahayden, NF. Whether the snake antenna could improve on this remains to be tested out by someone with a location having both adequate land and a noise source in need of "squashing".

#### III. Balanced Wire Antennas for Noise Reduction

Reduction of local manmade electrical noise has been done successfully by Denzil Wraight, Dallas Lankford, myself, and others through the use of "clean" grounds and isolation transformers. Another way to reduce such noise is to use a center-fed wire antenna with isolation transformers at both the antenna and receiver ends of the coaxial feedline. A resonant dipole for medium wave

has an overall length of 468/F feet or 142.65/F meters (where F is the frequency in MHz). At the bottom of the dial (530 kHz), this works out to be 269 m/883 ft. Two drawbacks to resonant dipoles are the often-unmanageable lengths and that they require mounting at impractically great heights. A non-resonant balanced antenna will not deliver as much RF as a resonant dipole but it can still provide rejection of noise far better than that obtainable from an end-fed (unbalanced) wire not used with a noise-reducing ground system. Noise that is distributed over a long run of electrical power line may be difficult to reduce with any system, except (perhaps) phasing or looping it out.

Typically, on medium wave, the wires used in a balanced antenna system are shorter than those which would be customarily used for a resonant dipole. Shorter than optimum wires may be matched coarsely to 50 ohm feedline through a 4:1 transformer such as the Mini-Circuits T4-6T-X65 or the 9:1 Mini-Circuits T9-1-X65. One side of the balanced wire antenna would be routed to one end of the transformer's higher-impedance winding (pin 6) and the other antenna wire to the other end of that winding (pin 4). The transformer's lower-impedance winding leads (pin 1, pin 3) can be connected through a low-loss pad to the coaxial cable that runs to the receiving position ("shack"). In this pad setup transformer pin 1 connects to an 8.2 ohm resistor R1, the other R1 lead to another 8.2 ohm resistor R3, the other R3 lead to the coaxial cable center conductor, and the R1/R3 junction via a 150 ohm resistor R2 to the coaxial cable shield and transformer pin 3. The pad introduces less than 3 dB of loss and maintains VSWR of under 3.2:1 for all wire lengths and frequencies. Keeping VSWR under control helps to prevent stray feedline pickup which could degrade the noise reduction and directional characteristics of the antenna. For permanent installations, the antenna's center assembly (with the stepdown transformer, pad resistors, and connectors) should be weatherproofed and protected from mechanical stress.

The "shack" end of the coaxial cable from the balanced antenna should go to one side of a 1:1 transformer (e. g. pins 4 and 6 of a Mini-Circuits T1-6-X65) and the cable to the receiver input/station ground should go to the other transformer winding (T1-6-X65 pin 1 - center conductor to receiver input, pin 3 = receiver ground). This will usually improve signals relative to local electric noise.

Daytime tests were run in Harwich, MA with such a balanced antenna system. The two wires were in a horizontal-V configuration with one leg running northeast and the other leg running northwest. Each leg

of the V was 60 m/200 ft. long. The balanced scheme (using transformers, pad resistors, coax. as explained above) was substantially quieter than either wire singly connected directly to the receiver and quieter than both wires tied together and connected directly to the receiver. Desired signals lost about 5 to 10 dB (versus the directly-connected wires), but electrical noise from SCR light dimmers in a nearby house dropped about 20 to 25 dB resulting in an overall improvement of 15 dB in signal-to-noise ratio. On some frequencies, signal-to-noise improvements of up to 25 dB were noticed. A number of weaker stations went from poor readability to good. Lost signal level was easily recovered by using a regenerative preamplifier box (Mini-MWT-3) or by switching on the internal broadband amplifier during phasing unit operation. The balanced wire antenna system is almost as good as the system using field-site ground rods. It might actually do better in circumstances where the effectiveness of the ground rods is low due to poor soil, sand, or rocks. A drawback when using short (under a quarter-wavelength) wires, as noted above, is less gain than obtained with a similar length of wire worked against ground.

Center feeding a large (over 30 m/100 ft.) single-turn closed wire loop that is horizontal, vertical, or tilted is a scheme worth investigating. You could put a potentiometer or a switch at the halfway point on the large single turn (opposite the feedpoint) to play around with the effects of directivity and noise reduction as obtained with short-circuit, open-circuit, and variable resistance conditions. Center-fed V's may be mounted upside down (inverted V), right side up, horizontally, or tilted. The V angle doesn't even have to be 90 degrees; anything above 45 degrees is probably useful. Straight center-fed "dipole-like" antennas could be horizontal, vertical, or sloped. I find that slopers 30 to 50 degrees from the vertical axis (60 to 40 degrees from horizontal) have desirable directional characteristics otherwise not easily obtainable with wires of fairly short electrical length.

For two antenna phasing, I would recommend center-fed slopers going down in opposite directions from the same tree, tower, or other vertical support. Alternately, you could have slopers going off the same support but separated by 90 degrees (as seen in an "aerial view" looking down at the top of the support). Three slopers separated by 120 degree horizontal-plane angles could give additional nulling versatility. A coaxial switch would be used to select the optimum 2 out of the 3 antennas to set up the best null solution.

#### Concluding statements

The above experiments were done to help

DXers hear more stations and to stimulate further research and development. Lengthy mathematical modeling was not done here, rather, real-life tests were the backbone of the experimentation. There are many good software packages out there for antenna design. Reduction of manmade noise (EMI) has become its own branch of engineering: Interference Control Technologies, Inc. in VA devotes a 12-volume set of books (priced at around \$1000 US) to it. The National Security Agency spends a lot of money on keeping RF

where it belongs and out of where it doesn't. RF design continues to be a strong field despite defense cuts. It would be interesting to see what can be done for the medium wave DXer through a rigorous application of state-of-the-art software and the latest engineering textbooks (blended with the accumulated wisdom of tube-era old-timers, where applicable). As sophisticated new designs are brought to the fore, real-life field testing will still be the final judge and jury.

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