

# DX News

• Serving DX'ers since 1933 •

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**From the Publisher:** *DX News* now enters the part of the year when we publish monthly. Please be sure to check the publication schedule when making submissions to column editors and to the publisher for the summer issues.

DXDD-West seems to be a rainout this time; look for an expanded version in the next issue.

### FROM THE BOARD OF DIRECTORS

#### The 2011 National Radio Club Convention

To the members of the National Radio Club, be they subscribers to *DX News*, the *DX Audio Service* or *e-DXN.com*; *unless someone steps forward very soon*, it would appear that we will not be having a convention, joint with WTFDA or otherwise. If nothing is forthcoming by the May 27, 2011 publisher's deadline for *DX News*, we'll have to forego an NRC Convention for 2011. This would be the first time since World War II that we have had no volunteers to actively organize and host the affair. Some longtime members have considered it but in some cases due to prior commitments and/or health issues have been unable to commit to it.

#### National Radio Club Membership Survey

It has been suggested that a survey of the membership of the National Radio Club be undertaken to determine what changes to *DX News*, the *DX Audio Service*, and the club in general might be desired by the membership. The Board and Publishers will be compiling questions and making suggestions to be issued within the survey and will, of course, entertain any additional suggestions and comments from the membership. The Board is looking to have this survey ready for release with the September issues of *DX News* and the *DX Audio Service*. Anyone interested in contributing ideas for the survey should send them to the Board Chairman at <amradiolog@nrndxas.org> and they will be forwarded to the survey committee.

Wayne Heinen, Chairman

**¡Cuba List!** Many of us have seen, or at least seen references to, Internet sources with the new list of Cuban broadcasting facilities that became

available a year or two ago. Mauricio Molano has all the details available in this issue – it's centered so print subscribers who don't save back issues (are there any of you?) can pull out these pages to keep near your radio!

**Future of AM Radio:** Some ask: Is there one? Interesting article from the *Kansas City Star* forwarded by Bill Hale in this issue.

**NRC AM Radio Log #31 – Sold Out!** The last copies of the *Log* have been claimed, and the cupboard is bare until the 32nd edition rolls off the press in late summer. Until then, please send along any updates, changes, corrections, etc. to Wayne Heinen at [sales@nrndxas.org](mailto:sales@nrndxas.org) or at P.O. Box 473251, Aurora CO 80047-3251.

### DX NEWS PUBLISHING SCHEDULE

Issue	Deadline (Fri)	Masthead (Sun)
27	May 27	June 6
28	July 1	July 11
29	August 5	August 15
30	September 9	September 19

**(Too) Late-Breaking DX Test:** After the last issue of *DX News* went to press, Oregon DXer Patrick Martin relayed word from Paul Lotsof of Arizona that KSAZ-580 in Marana, AZ was to test on Sunday, April 24, from 0300 to 0600 ELT. The station was to run regular programming ("Radio Ebineezer," Spanish religion) at its 5000-watt non-directional day pattern. English IDs were anticipated on the hour, but probably no tones, sweeps, or code. (Via Saul Chernos for the IRCA-NRC DX Test Committee.)

**New Members:** A warm NRC welcome to James Arnott, Besenville, IL (rejoins); Thomas Hartloff, Blythewood, SC; and Emily Keene, Middletown, NJ.

**Getting Back:** I am a 62 year old resident of North San Diego County in Southern California. In my twenties I was a DXer living in Houston, Texas. Since then time, family, and jobs have gotten in the way. I'm interested in getting back into the hobby. Can you see if any members who live in North San Diego County would like to chat with me to get me jumpstarted again/ Thanks. James Marmack <redman7@cox.net>.

**The DX Time Machine** – See page 26 this week.

# AM Switch



**Bill Hale** w\_r\_hale@sbcglobal.net

6124 Roaring Springs Drive

North Richland Hills, TX 76180-5552

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

## CALL LETTER CHANGES

<u>Old Call</u>	<u>New Call</u>
820 KORC OR	Waldport KWDP
1190 WAGE VA	Leesburg WCRW
1260 KGIL CA	Beverly Hills KMZT
1490 WSYA AL	Anniston WGBZ
1590 NEW MI	Big Rapids WODJ



## CONSTRUCTION PERMITS ON THE AIR

830 WQZQ TN	Goodlettsville – Is back on the air, moving here (ex: 1550 kHz at Clarksville) with D1 2000/0 at 36-16-22/86-42-57 (the tower of WPLN-1430 Madison).
890 KTXV TX	Mabank – Initially licensed for U4 20000/250, KTXV petitioned to delete their nighttime operation as their signal did not reach their intended audience in the Dallas-Fort Worth area. KTXV programs in the Vietnamese language. This operation is now licensed, making them D3 20000/0.
990 WISK GA	Lawrenceville – Is now on here (ex: 1390 at Americus) with D1 1000/0 at 33-57-11/83-58-15.
1190 WCRW VA	Leesburg – Is now on here (ex: 1200) with U4 50000/1300. They are now a two-site operation. The three-tower day site at 39-02-28/77-26-42 sends a large circular lobe to the southeast. Night operation is at the former 1200 site at 39-07-25/77-37-31, where they built two additional towers making a total of four. That array sends an elongated main lobe to the southeast, with smaller lobes to the southwest, northwest and northeast.
1310 KTCK TX	Dallas – Is now on with U4 25000/5000.
1450 WMJQ PA	Milford – New station is on the air with U1 1000/1000 at 41-20-10/74-47-45.

## ACTIONS

790 WAXY FL	South Miami – In November 2009, WAXY petitioned the FCC to, by way of a Special Temporary Authorization (STA), increase power to become U4 25000/25000 in order to “overcome interference created by a co-channel station located in Cuba”, which was granted. That STA has been extended.
910 KKSX WA	Vancouver – CP granted for U4 3300/4300, negating their previous CP for U4 2600/4300.
960 WDNO PR	Quebradillas – Construction Permit (CP) granted for U4 390/500.
1100 WISS WI	Berlin - CP granted for D4 50000/0 CH 20000. Adding one new tower, the new patterns will be kidney-shaped headed to the northwest.
1140 WMMG KY	Brandenburg – Coordinate correction to 37-59-09/86-11-04
1150 KBPO TX	Port Neches – Coordinate correction to 30-05-04/93-58-13.
1190 WAFS GA	Atlanta – CP granted for D1 25000/0, deleting their current authorization for CH 2300.
1270 KDJI AZ	Holbrook – Coordinate correction to 34-54-21/110-11-25.
1280 KPRV OK	Poteau – Is now on the air with U1 1000/108 from a new tower at 35-00-55/94-39-06. They replaced their tower and installed a shunt-fed unipole antenna.
1340 KTFI ID	Wendell – CP granted for U1 1000/1000. This station is not yet on the air.
1490 WSIP KY	Paintsville – CP granted to relocate their transmitter to the WKYH-1490 site at 37-47-21/82-47-04. The move was required due to pending road construction by the State of Kentucky. WSIP remains U1 1000/1000.

## CONSTRUCTION PERMIT AMENDMENTS

780 KCEG CO	Fountain – New station, not yet on the air, has a CP for U4 1900/720. This amendment requests U4 1900/720 moving to Pueblo.
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- 1030 NEW AL Maxwell AFB – This new station, not yet on the air, has a CP for U4 35000/1000. This amendment requests U1 5000/11 CH 5000.
- 1340 KTFI ID Wendell – This new station, not yet on the air, has a CP for U1 250/250. This amendment requests U1 1000/1000.
- 1520 WDCY GA Douglasville – Licensed for D4 2500/0 CH 800, WDCY was granted a CP for D3 50000/0. They have now requested that the CP be rescinded as they



applied for D4 50000/0 CH 50000 with slightly different daytime parameters and adding the CH operation.

#### APPLICATIONS

- 1140 KYOK TX Conroe – Applies to move to Katy with D4 700/0 CH 700.
- 1520 WSVX IN Shelbyville – Having operated under an STA with U1 250/62.5 since February when an ice storm felled one of their three towers, WSVX has now applied for U1 260/4 CH 260 on a permanent basis.

#### APPLICATION AMENDMENTS

- 860 WDMG GA Douglas – Licensed for U2 5000/5000, WDMG applied for U1 5000/39. This amendment requests U1 5000/30.

#### LICENSE RENEWALS GRANTED

- 740 WI2XACPR Ponce

#### APPLICATIONS FOR RECONSIDERATION

- 1350 WLMA SC Greenwood – Applies for license reinstatement and a facility change to U1 1000/94.

#### DISMISSALS AND DELETIONS

- 720 WVUV AS Leone – License cancelled; call deleted [station is in American Samoa and not listed in the AM Log]
- 860 WAMI AL Opp – Application to move to Kanab, Utah has been dismissed. WAMI remains U1 1000/47.
- 1240 WMFG MN Hibbing – Application for U1 490/490 has been cancelled per applicant's request. WMFG remains U1 1000/1000.
- 1310 WCCW MI Traverse City – CP for U4 50000/7500. WCCW remains U4 15000/7500.
- 1320 KSDT CA Hemet – Application for U4 250/410 moving to Loma Linda. KSDT remains U4 500/300.
- 1400 WGHC GA Clayton – Application for D1 2800/0 CH 2800 moving to 830 kHz has been dismissed. WGHC remains U1 1000/1000.
- 1460 KBRZ TX Missouri City – Application for U5 10000/125. KBRZ remains U1 5000/125.
- 1570 WONA MS Winona – License cancelled; call deleted.
- 1600 KLEB LA Golden Meadow – CP for U4 7500/250. KLEB remains U4 5000/250.

#### AM ON FM

- 610 WIOD FL Miami – W262AN (100.3) Tamarac
- 610 WVBE VA Roanoke – W249AG (97.7) Roanoke
- 690 KBLI ID Blackfoot – K237FA (95.3) Pocatello
- 740 WNOP IN Newport – WNOP-FM (89.5) Versailles
- 860 WSON KY Hendersonville – W243CU (96.5) Madisonville
- 930 WBEN NY Buffalo – WLKK (107.7) Wethersfield Township
- 970 KBUL MT Billings – KCHH (95.5) Worden
- 1300 KCMY NV Carson City – K273AF (102.5) Carson City
- 1320 WLOH OH Lancaster – W257EQ (99.3) Logan
- 1430 KAOL MO Carrollton – K267BN (101.3) Bosworth
- 1430 KBRC WA Mount Vernon – K271AH (102.1) Camano
- 1440 WCDL PA Carbondale – W294BJ (106.7) Waymart
- 1490 WSGB WV Sutton – W243CA (96.5) Sutton
- 1590 WPSN PA Honesdale – W270CC (101.9) Hamlin



HEAR AND THAR

- ✿ **Returning to the airwaves:** KZMX-580 Hot Springs, South Dakota is back on the air with Country.
- ✿ **Reported as Silent:** WQDR-570 and WCLY-1550, both Raleigh, North Carolina are silent after a tornado took down their common tower; also off the air are WSJC-810 Magee, Mississippi, WLSB-1400 Copperhill, Tennessee, and once again WVZN-1580 Columbia, Pennsylvania is off. WVZN has been sold, so once it returns, it may be for good.
- ✿ **Fines:** A fine of \$7000 for late filing of license renewal was cancelled for the former owners of KQLO-1590 Sun Valley, California when it was shown that prior to being sold, they filed for a "silent STA"; then . . . the FCC fined the new owners \$4000 for "engaging in the unauthorized transfer of control of the station".
- ✿ **News Item:** Over the past few months I have received a number of inquiries from members concerning WWKB-1520 Buffalo, New York. It seems some sort of announcement was made concerning a power change. After no mention of that action was reported in the AM Switch column, or *DX News* for that matter, the inquiries began to arrive. Here's the bottom line: I have contacted WWKB engineering personnel via e-mail and telephone, and have been assured they have had no plans to change their power output of 50 kW or to change their directional patterns. In fact, they say 'no such plans have ever been discussed'. I hope that puts this discussion to bed.
- ✿ **Thanks to:** Wayne Heinen, Steve Kennedy, Jefferson E. Lewis, Tim Noonan, and Dave Schmidt.

*Domestic DX**Digest – East***Mike Brooker** patrial818@yahoo.com

99 Wychrest Avenue

Toronto, ON M6G 3X8 CANADA

U.S./Canadian Loggings from Eastern/Atlantic Time Zones. All times ELT.

Please note Mike's new e-mail address above. – DY

## REPORTERS

- BC-NH **Bruce Conti, Nashua** – Excalibur SDR, MWDX-5, variable termination SuperLoop antennas northeast and south.
- SC-IN **Steve Chappell, McCordsville** – Chrysler car radio, K9AY loop antenna
- HF-MI **Harold Frodge, Midland** – Drake R8B + 125 ft. bow-tie; 85 ft. RW & 180 ft. center-fed RW
- PLG-FL **Paul Gray, NØJAA, Melbourne** – 2008 Dodge Grand Caravan factory stereo radio
- HJH-PA **Harry Hayes, Wilkes-Barre** – Grundig S350, Kiwa Pocket Loop
- KK-VA **Kraig Krist, Manassas** – PL-310, NRD-545, Kiwa loop, homemade 134 foot multiband antenna running NW to SE.
- TLK-FL **Terry L. Krueger, Clearwater** – JRC NRD-535; ICOM IC-R75; Hammarlund HQ-180A; Sangean PR-D5; Aqua Guide 705 Radio Direction Finder; Sony ICF-7600GR; GE SuperRadio III; RadioShack DX-399; 1 X roof dipole; 1 X in-room random wire.
- JJR-MI **John J. Rieger, L'Anse** – CCRadio 2
- MKB-ON **Mike Brooker, Toronto** – Grundig G5, Grundig YB-400PE, Sony SRF-39FP, Panasonic RF-2200 (receiver emeritus)

## STATION NEWS

- 1050 CHUM ON **Toronto** – TSN Radio sports format launched on 4/13, likely not coincidentally the first night of the Stanley Cup playoffs. Jim Rome show on tape delay, if aired at all, so my lunch hour Jungle fix will still be heard via WGR-550. (MKB-ON)
- 1390 WZHF VA **Arlington** – Now broadcasting Voice of Russia programs (presumably in EE) 24 hours a day, 7 days a week. VOR website has info at <http://english.ruvr.ru/2010/10/01/23541245.html>. (KK-VA)



## UNID

1550 UNID -- 4/9 2153 – Station promos for WVAB (Virginia Beach, VA) and WBVA thought to be heard but both listed as silent. **(SC-IN)**

## LOGGINGS

- 570 WKBN OH **Youngstown** – 4/16 0136 – Over/under CKGL with slogan “News-Talk 5-70 WKBN,” Coast-to-Coast AM show. **(HF-MI)**
- CKGL ON **Kitchener** – 4/16 0136 – Under/over WKBN with ESPN sports; several .ca ads. Also noted 4/16 1115 with Ask The Experts financial program with mentions of Waterloo Region, many non-IDs as “5-70 News,” never mentioning call letters or Kitchener except during ToH news. Well on top with whiny QRM. **(HF-MI)**
- 640 WNNZ MA **Westfield** – 4/2 2000 – Good; “This is WNNZ AM Westfield and WNNZ-FM Deerfield, your NPR news stations at UMass Amherst, online at wnnz.org,” and BBC World Service. **(BC-NH)**
- 660 KBHR MN **Sauk Rapids** – 4/20 0614 – Poor but over WFAN with traffic report, slogan “you’re on the Bear...” and local car dealer ad. No calls heard. **(JJR-MI)**
- 670 WIEZ PA **Lewistown** – 4/1 1731 – PSA for protecting children in a car, station promo, “coming up after this news update on WIEZ....” **(KK-VA)**
- 690 WOKV FL **Jacksonville** – 4/2 1955 – Good; promo, “News/Talk Radio WOKV, depend on it,” and weather. **(BC-NH)**
- WZAP VA **Bristol** – 4/2 1959\* – Fair over WOKV with sign-off announcement, “We hope you’ll join us tomorrow morning at 6 a.m. for the best in Christian programming on the one to turn to, WZAP. Good night and God bless you.” **(BC-NH)**
- WELD WV **Fisher** – 4/9 2138 – Good, over *R. Progreso* Cuba; ad for Charlie’s Barber Shop, WELD jingle, and oldies. **(BC-NH)**
- 710 CJRN ON **Niagara Falls** – 4/13 2143 – “This is the world’s largest tourist information station CJRN 7-10,” Niagara Falls Moment, Niagara weather; frequent IDs/promos. Mainly on top, but need LSB due to totally useless IBOC from WGN-720. **(HF-MI)**
- 720 WGCR NC **Pisgah Forest** – 4/9 1959\* – Over/under SS programs on WWII-Shiremanstown with sign-off announcement and national anthem. 50 kW is on per *AM Switch*. **(BC-NH)**
- 730 WJTO ME **Bath** – 4/9 2000 – Good, over unID sports radio; easy listening, slogan “This is the memory station, 730 WJTO Bath” and contact info, [bob@wjto.com](mailto:bob@wjto.com). **(BC-NH)**
- WPIT PA **Pittsburgh** – 4/2 2000 – Fading up in CKAC null; wpitam.com website promo, ID into religious program. **(BC-NH)**
- 740 KCMC TX **Texarkana** – 4/2 0511 – Very poor with station promo “...Thursday evenings 7 o’clock here on ESPN Radio KCMC now on FM 105.5.” **NEW! (SC-IN)**
- WRNR WV **Martinsburg** – 4/1 1734 – Man with station website promo “... on WRNR dot com.” **(KK-VA)**
- 750 WBMD MD **Baltimore** – 4/9 1945\* – Fair; sign-off announcement ending with ID, “...WBMD Baltimore.” **(BC-NH)**
- WQOR PA **Olyphant** – 4/2 2001 – Fair with gospel, ad for EWTN catalog. **(BC-NH)**
- 780 WWOL NC **Forest City** – 4/2 1958\* – Good; caught end of sign-off announcement, “...entire staff of WWOL, have a great evening,” into a country gospel instrumental, off at 2000. **(BC-NH)**
- 810 WPIN VA **Dublin** – 4/2 2000 – Under WGY; WPIN Dublin-Blacksburg ID and WPIN jingle. New log. **(BC-NH)**
- 930 WBEN NY **Buffalo** – 4/17 2200 – Poor with ToH ID for AM and separate FM (WLKK) calls, CBS news over UNID NOS station. **(JJR-MI)**
- 940 WKGM VA **Smithfield** – 4/2 2000 – Good; “This is AM 940 WKGM Smithfield and all of Hampton Roads,” into weather, “...on AM 940 WKGM, your ministry station.” **(BC-NH)**
- 960 WHYL PA **Carlisle** – 4/3 1938 – Strong with oldies and standards mix. “WHYL” jingle. Cut power at 1944 but still slightly audible. **(HJH-PA)**
- 1000 WLNL NY **Horseheads** – 4/6 1722 – In mix with gospel singing, SRN news at 1800, “WLNL weather... right now” into local weather. **(KK-VA)**
- WIOO PA **Carlisle** – 4/1 1741 – In mix with C&W songs, ad mentioning Harrisburg and Carlisle, slogan “Solid country gold WIOO” into Donna Fargo song. ABC news

at 1800, ToH ID: "Country gold 1000 WIOO Carlisle and 1480 WEEO Shippensburg. Now on 93.9 and 97.9 FM." **(KK-VA)**

- 1070 KNX CA **Los Angeles** – 4/1 0059 – Popped up with announcement about contaminated water, "This is KNX AM 10-70" ID, CBS News promo into news at ToH. Very surprising, considering the useless IBOC mess. **(HF-MI)**  
 +++ 4/20 0605 – Poor but steady with fades, mentions of "Pomona... Orange Freeway, San Bernadino." "Traffic on the 5's", "CBSLA.com" website promo, ID as "KNX news time 3:05." Still in 90 minutes later! First time noted this season. **(JJR-MI)**
- WFNI IN **Indianapolis** – 4/4 2005 – Slogan "10-70 the Fan"; NCAA Finals pre-game show, ad for Classic Cleaners on Indy's north side. Mainly on top, challenged by second sports station, WTSO and gospel station. **(HF-MI)**
- WEKT KY **Elkton** – 4/1 2352 – Old time gospel music, ID at 0002, "This is WEKT Elkton KY AM 10-70." Mixing with UNID sports station and useless IBOC mess. KY #27. Listed at only 18 watts but I doubt it. **(HF-MI)**
- WTSO WI **Madison** – 4/4 1904 – Fox Sports Radio programming, Milwaukee Brewers ticket promo. Mainly under CHOK, but challenging after about 1921. **(HF-MI)**
- 1080 KNDK ND **Langdon** – 4/20 0803 – Poor with news on area flooding, state and local news, no calls heard. //105.1-FM (in AM drive). **(JJR-MI)**
- 1090 KMXA CO **Aurora** – 4/20 0800 – Strong and loud with SS programs, no calls heard. **(JJR-WI)**
- 1100 WZFG MN **Dilworth** – 4/20 0807 – Poor with "Flag weather" (station's slogan is "The Flag"), "AM1100.tv" website promo for current conditions, local ads. **(JJR-MI)**
- 1110 WBT NC **Charlotte** – 4/12 2221 – Neil Boortz talk show leading into station break with network commercials. Good signal with SS stations underneath, some atmospheric noise. **(PLG-FL)**
- 1220 KDDR ND **Oakes** – 4/20 0810 – Poor to fade-out with talk of being told to use less water by city. Solution (suprise!) ... laundromat! "Dakota Country" slogan. **(JJR-WI)**
- 1230 KWSN SD **Sioux Falls** – 4/20 0812 – vVry poor with Fox sports, local sport chatter "on KWSN." In with others. **(JJR-MI)**
- 1250 WNEM MI **Bridgeport** – 4/3 0355 – In mix with WDDZ, CJYE, oldies and ESPN stations, "Talk... 12-50...WNEM..." station promo. **(KK-VA)**  
 CJYE ON **Oakville** – 4/3 0355 – In mix with WDDZ, WNEM and others, woman with station promo "You're listening to overnight...CJYE Oakville 1250 and CJMR AM 1320." **(KK-VA)**
- 1260 WWRC DC **Washington** – 3/13 0633 – Very poor, "1260 WWRC Intelligent Talk" slogan into possibly the Bill Bennett Show. **(SC-IN)**  
 KROX MN **Crookston** – 4/20 0829 – Poor, mention of "in downtown Crookston", local news, call letter ID. **(JJR-MI)**  
 WSKO NY **Syracuse** – 4/17 2125 – Poor but steady over WNDE and others with thescore1260.com website promo. **(JJR-MI)**  
 WXCE WI **Amery** – 4/17 0806 – Poor but steady with end of news, local weather "...on AM 1260 wixie" by meteorologist. Only fit for "wixie" slogan. **(JJR-MI)**
- 1280 WHVR PA **Hanover** – 4/11 0659 – Over CFMB-Montreal's Italian talk with C&W song, ToH ID: "country legends and community service... this is Real Country WHVR" into ABC news. **(MKB-ON)**
- 1290 WIRL IL **Peoria** – 4/6 0355 – In WHIO/CJBK mix with C&W songs including "Wasted Days and Wasted Nights," man with "12-90 WIRL" ID, ad for gold store in Peoria. **(KK-VA)**  
 CJBK ON **London** – 4/6 0355 – In WHIO/WIRL mix with station promo: "This is CJBK AM London. News-talk 12-90. The trusted voice in London for nearly..." into news by woman, "From the national newsroom... I'm Karen..." **(KK-VA)**
- 1300 WFRX IL **West Frankfort** – 4/20 2303 – Very poor, "WFRX" ID into weather report. NEW! **(SC-IN)**
- 1320 WENN AL **Birmingham** – 4/4 0653 – Popping up over the two Cubans and other domestics with black female, "... here in Birmingham... on WENN..." **(TLK-FL)**  
 WJNJ FL **Jacksonville** – 4/4 0700 – Also popping up briefly, black male with, "You're listening to WJNJ... 1320 and 103.7..." into possible news, but lost in the mess. WDDV, Venice, FL with NOS format beginning to dominate now (and announcing 1450 and 1320 simulcast). **(TLK-FL)**
- 1330 WSPQ NY **Springville** – 4/9 0355 – iIn WYRD mix with 1970's oldies including Steve Miller "Jungle Love," ABBA "Dancing Queen," Earth, Wind & Fire

"September," male DJ "WSPQ... has taken an extended leave..." into song by Toto. **(KK-VA)**

- WYRD SC Greenville** – 4/9 0355 – In WSPQ mix with station promo "News radio WORD and WYRD... this is your Greenville Spartansburg... WYRD Greenville WORD Spartansburg" into Fox News Radio. **(KK-VA)**
- WBTM VA Danville** – 4/12 2003 – In mix with oldies, station promo "...down home...13-30 WBTM..." into Otis Redding song. **(KK-VA)**
- 1340 KDLM MN Detroit Lakes** – 4/17 0729 – Poor, in and out with two others, with call letter ID, time check into station promo. Arrowheadtransit.com ad. A real live jock! Not on bird on Sunday morning! **(JJR-MI)**
- WPEM WV Martinsburg** – 4/2 1335 – In mix with WVCV, talking about Friday's baseball games, ad for getting out of debt, station promo "You are here for West Virginia Mountaineers... sports radio 13-40 WPEM." **(KK-VA)**
- 1350 WARF OH Akron** – 4/11 0355 – In mix with SS and ESPN stations, with typical Fox Sports Radio programming discussing the Masters and Tiger Woods, station promo "Fox Sports Radio. This is WARF Akron your home of the ... Fox Sports 13-50," slogan "The sports animal." **(KK-VA)**
- 1360 KKBJ MN Bemidji** – 4/20 0833 – Poor, in and out with WTAQ, local ads, promo for "Bemidji Bowl," no calls heard. **(JJR-MI)**
- WHBG VA Harrisonburg** – 4/1 1719 – In mix with usual ESPN Radio programming, man with "ESPN Radio... WHBG..." ID. **(KK-VA)**
- 1370 WGOH KY Grayson** – 3/26 1900\* – SSB and sign off, mentioned "5000 watts... 1370 WGOH." NEW! **(SC-IN)**
- WVIE MD Pikesville** – 4/2 1900 – Very weak with slogan "sports for Baltimore... Fox 1370 Sports Radio." NEW! **(SC-IN)**
- WXXI NY Rochester** – 4/15 0355 – In WSPD/WGIV mix with station promo "...on WXXI," ID by woman "you're listening to WXXI Rochester" into BBC World Service programming. **(KK-VA)**
- WGIV NC Pineville** – 4/15 0355 – In WXXI/WSPD mix with religious programs, gospel singing, "...at WGIV..." ID by man. **(KK-VA)**
- WSPD OH Toledo** – 4/15 0355 – Coast to Coast AM in mix with WXXI and WGIV, station promo "...weekdays on WSPD." **(KK-VA)**
- WRGS TN Rogersville** – 4/2 1923 – Very weak with station promo "...you're listening to WRGS..." NEW! **(SC-IN)**
- 1380 KLIZ MN Brainerd** – 4/17 0755 – Fair and alone with slogan "1380 KLIZ the Fan" into ad. Not heard all season! **(JJR-MI)**
- CKPC ON Brantford** – 4/16 0355 – In mix with C&W songs, ToH ID by man: "This is 13-80 CKPC AM Brantford..." into news, "From the national newsroom of the Canadian press I'm..." **(KK-VA)**
- 1390 WLCM MI Holt** – 4/20 0800 – Poor with ToH ID in and out of fades, slogan "Victory 1390," religious programs. NEW! **(JJR-MI)** *Holt is city of license, but they mainly serve Charlotte, MI, which they pronounce with accent on final syllable, unlike usual pronunciation of Charlotte, NC. Mike*
- 1420 WHK OH Cleveland** – 4/20 0729 – Poor with local ID, local news, Bill Bennett show in fade up over usual KTOE. **(JJR-MI)**
- 1430 WXNT IN Indianapolis** – 4/19 0355 – In CHKT mix with ad mentioning "Dining out for live," "WXNT Indianapolis... Fox..." ID by man. **(KK-VA)**
- WNAV MD Annapolis** – 4/2 1303 – CBS news, man with local "WNAV forecast." **(KK-VA)**
- WPLN TN Madison** – 4/9 2000 – Poor, "This is United States Public Radio 1430 WPLN Madison online WPLN.org." NEW! **(SC-IN)**
- 1440 WMAX MI Bay City** – 4/20 0659 – Over WNFL with ToH ID, run-down of day's programming, EWTN gospel programs. **(JJR-MI)**
- 1450 WKLA MI Ludington** – 4/17 0709 – Poor with call letter ID, "True Oldies" station promo over mess. **(JJR-MI)**
- KBMW MN Breckenridge** – 4/20 0837 – Poor with ad for local Lincoln dealer, catering for NDSU, "Wapheton (ND) is a great place to live" promo, call letter jingle, classic C&W. **(JJR-MI)**
- KZZJ ND Rugby** – 4/20 0646 – Poor, in with 2-3 others, station promo "...only on 1450-KZZJ" into C&W. **(JJR-MI)**
- WLEC OH Sandusky** – 4/10 1958 – Poking through graveyard jumble with NOS instrumental music, Allstate ad, station promo "...only on 1450 WLEC Sandusky." **(MKB-ON)**

- 1460 KLTC ND **Dickinson** – 4/20 0649 – Poor with CJOY and others in fade-up, "Classic Country Favorites" (jingle) "1460 KLTC" spoken ID into C&W songs. **(JJR-MI)**
- 1480 WGVU MI **Kentwood** – 4/17 2208 – Poor over others (no usual WLMV) with PSA, slogan "Real Oldies 1480 and 850", RealOldies1480.org website promo into oldies. **(JJR-MI)**
- WCNS PA **Latrobe** – 4/20 0355 – In mix with oldies, "14-80 WCNS" spoken ID and jingle. **(KK-VA)**
- 1490 WKNY NY **Kingston** – 4/17 2005 – Loud briefly with ID, "...keep us on, 1490 WKNY, The Kingston Station."**(HJH-PA)**
- WKVT VT **Brattleboro** – 4/15 2300 – ID during WEEI Red Sox coverage. Mentioned Brattleboro, Keene and another station that was inaudible. Fair to good briefly. **(HJH-PA)**
- 1510 WWZN MA **Boston** – 4/22 0355 – In WLAC mix with ad mentioning "12 minutes from Boston's Logan Airport...", station promo by woman, "here on AM 15-10 Revolution Boston." This is WWZN according to [www.1510thezone.com](http://www.1510thezone.com) **(KK-VA)**
- WLAC TN **Nashville** – 4/22 0355 – In WWZN mix with Coast to Coast AM show discussing religious topics, "15-10 WLAC" ID by man. **(KK-VA)**
- 1540 WNWR PA **Philadelphia** – 4/6 1814\* – In mix with religious broadcast originating from Baltimore, cut off in mid-stream for sign-off announcement, IDs as "15-40 WNWR Philadelphia." **(KK-VA)**
- 1550 CBE ON **Windsor** – 4/6 1154 – Good on midday groundwave with The Debaters program, comedy bits about common law marriage, ToH ID: "This is CBC Radio One, AM 15-50 in Windsor...", program notes into "CBC Windsor News." **(HF-MI)** *It's a moot point, as CBE will be moving to FM soon, but they do not put a good signal into Michigan beyond the greater Detroit area. Even in Dearborn, it was easy to null CBE. Mike.*
- 1570 KYCR MN **Golden Valley** – 4/18 0702 – Poor with SRN news, "Twin Cities news," "Anoka" mentions, "Minneapolis" mention by newscaster Mike Scott (who also does WIND news), traffic, local weather, call letter ID finally! Rare! **(JJR-MI)**
- WQTW PA **Latrobe** – 4/8 2018 – Briefly over noise floor with station promo "lots of music and your favorite hits here on 1570 WQTW" into C&W song, then lost to gospel station. **(MKB-ON)**
- 1650 WHKT VA **Portsmouth** – 4/12 2240 - "Face to Face with Brian Holland, dissecting and lampooning a teen music video, followed by an announcement for a fundraiser for tornado victims. Hour ended with a William Shatner interpretation of Elton John's "Rocket Man," then Dolly Parton's "9 to 5" into network news. Signal fair to poor, moderate fading with significant atmospheric noise. **(PLG-FL)**

## *Pro Sports Networks*

**Barry S. Finkel** bsfinkel@ANL.gov  
10314 S. Oakley  
Chicago, IL 60643-2409

Here are two Major League Baseball (MLB) updates I received via e-mail. Please send me any other updates you may have.

Bob Karchevski says that the San Francisco Giants' announcer list does not contain Greg Papa. And he reports that the Oakland Athletics are now on 95.7 KBWF-CA ("The Wolf") with Ken Korach and Vince Cotroneo.

Eric Nordberg reports from Portland, Oregon this (a direct quote): "KTRO-910 is licensed to Vancouver, Washington, and transmits near the Portland (Oregon) airport. Once famous as KISN, later renamed KKSJ. Today it is mostly Hispanic, but is the "alternate" station for the Mariners broadcasts (in English) when the main Portland affiliate -- KFXJ-1080, once well-known as KWJJ -- finds it inconvenient to carry the games. So, in Portland, the Mariners broadcasts may turn up on either 910 or 1080, depending upon the day. For some reason, the Mariners forgot to include KFXJ-1080 on the list you printed, but that is (and has been for a few years) the Mariners' primary affiliate in Portland. Both 910 and 1080 are owned by the same company -- Entercom, I believe."

The Seattle Mariners' URL I used has in the listing of Oregon stations, "KTRO\*\* 910AM" without a city designation and without any explanation of the "\*\*".



# *International* **Bruce Conti** [contiba@gmail.com](mailto:contiba@gmail.com) *DX Digest* 46 Ridgefield Drive Nashua, NH 03062-1174

**Loggings of stations outside the Lower 48 and Canada. All times UTC.**

## Trans-Atlantic DX

- 153 **GERMANY** *Deutschlandfunk*, Donebach APR 8 2339 – Female vocal rock music parallel 207 and 756; mixed with other. [Connelly-MA]
- 162 **FRANCE** *France Inter*, Allouis APR 8 2340 – Man in French, then '50s type guitar and Jerry Lee Lewis style song about St. Tropez (in French); good. [Connelly-MA]
- 183 **GERMANY** *Europe 1*, Felsberg APR 8 2340 – Folkish rock male and female vocal in English; good. [Connelly-MA]
- 189 **ICELAND** *Ríkisútvarpid*, Gufuskálar APR 8 2339 – Icelandic teletalk; good. [Connelly-MA]
- 198 **UNITED KINGDOM** *BBC Radio 4*, Droitwich et al. APR 8 2339 – English talk by man; poor with some kind of digital hash on the upper sideband. [Connelly-MA]
- 207 **GERMANY** *Deutschlandfunk*, Aholming APR 8 2340 – Parallel 153 and 756 with female rock vocal; poor. Used USB to dodge QI beacon. [Connelly-MA]
- 225 **POLAND** *Polskie Radio*, Konstantynow APR 8 2340 – Rock vocal, guitar; poor to fair. [Connelly-MA]
- 234 **LUXEMBOURG** *RTL Junglinster* APR 8 2340 – Country-bluegrass vocal with banjo; fair. [Connelly-MA]
- 252 **ALGERIA** *R.Algerienne*, Tipaza APR 8 2340 – French teletalk; strong. Presumed Ireland way under. [Connelly-MA]
- 549 **ALGERIA** *Chaîne 1*, Les Trembles APR 8 2340 – Afropop-influenced Arabic music; good. [Connelly-MA]
- 585 **SPAIN** *RNE1* Madrid APR 8 2340 – Bits of Spanish talk by woman; in bad WEZE slop. [Connelly-MA]
- 603 **FRANCE** *France Info*, Lyon-Tramoyes APR 8 2339 – Parallel 945 with female vocal; poor. [Connelly-MA]
- 639 **SPAIN** *RNE1* La Coruña et al. APR 8 2340 – Parallel 774 with woman in Spanish; to fair peak. [Connelly-MA]
- 684 **SPAIN** *RNE1* Sevilla APR 8 2359 – Man in Spanish; in bad WRKO slop. [Connelly-MA]
- 693 **UNITED KINGDOM** *BBC Radio 5*, Droitwich et al. APR 8 2340 – BBC discussion; poor. [Connelly-MA]
- 738 **SPAIN** *RNE1* Barcelona APR 9 0000 – Spanish news; to fair peak. [Connelly-MA]
- 747 **CANARY ISLANDS//SPAIN** *RNE5* synchros APR 9 0000 – Man in Spanish briefly noted during Netherlands fade. [Connelly-MA]
- 747 **NETHERLANDS** *Radio 5*, Zeewolde APR 8 2359 – Classical piano music; to good peak. [Connelly-MA]
- 756 **GERMANY** *Deutschlandfunk*, Braunschweig & Ravensburg APR 8 2339 – Parallel 153 and 207 with rock female vocal; good. [Connelly-MA]
- 774 **SPAIN** *RNE1* synchros APR 8 2301 – Spanish news by woman; to fair peak. [Connelly-MA]
- 783 **MAURITANIA** *R.Mauritanie*, Nouakchott APR 8 2339 – Tentative. Arabic teletalk; poor. [Connelly-MA]
- 792 **SPAIN** *SER* Sevilla APR 9 0000 – News by man and woman in Spanish; over others. [Connelly-MA]
- 837 **CANARY ISLANDS//SPAIN** *COPE* synchros APR 8 2300 – Two men in Spanish. APR 9 0000 - Spanish news; loud. [Connelly-MA]
- 855 **SPAIN** *RNE1* Murcia et al. APR 8 2339 – Woman in Spanish; in WEEI slop. [Connelly-MA]
- 909 **UNITED KINGDOM** *BBC Radio 5* synchros APR 8 2339 – Talk parallel 693; poor. [Connelly-MA]
- 945 **FRANCE** *France Info*, Toulouse APR 8 2339 – Parallel 603 with female vocal; poor to fair. [Connelly-MA]
- 954 **SPAIN** *Onda Cero*, Madrid APR 8 2340 – Two men in Spanish; good. [Connelly-MA]
- 999 **SPAIN** *COPE* Madrid APR 8 2340 – Man in Spanish; to fair peak. [Connelly-MA]

- 1035 **PORTUGAL** *R.Clube*, Belmonte APR 9 0000 – “American Pie” by Don McLean; in tough WBZ slop. [Connelly-MA]
- 1062 **DENMARK** *Danmarks Radio*, Kalundborg APR 16 0335 – Good; usual sign-on procedure beginning with open carrier, 0340 interval signal. [Conti-NH]
- 1089 **UNITED KINGDOM** *TalkSport* synchros APR 9 0001 – News about someone sentenced for a crime; poor. [Connelly-MA]
- 1098 **SPAIN** *RNE5* synchros APR 9 0000 – Choral music, pips, ID, "Radio Nacional de España"; fair. [Connelly-MA]
- 1107 **SPAIN** *RNE5* synchros APR 8 2359 – Talk, bit of choral music parallel 1098; in bad slop. [Connelly-MA]
- 1116 **SPAIN** *SER* synchros APR 8 2323 – Fast Spanish talk by man. [Connelly-MA]
- 1134 **SPAIN** *COPE* synchros APR 8 2359 – Vocal parallel 837; to fair peak. [Connelly-MA]
- 1206 **FRANCE** *France Info*, Bordeaux APR 8 2359 – Parallel 945 with vocal; poor. [Connelly-MA]
- 1215 **UNITED KINGDOM** *Absolute Radio* synchros APR 2 0028 – Good; Breakfast Show promo. [Conti-NH] APR 8 2308 – "Tubthumping" by Chumbawumba; good. [Connelly-MA]
- 1296 **SPAIN** *COPE* Valencia APR 2 0220 – Fair; talk parallel a much weaker 999 kHz. [Conti-NH]
- 1314 **UNITED ARAB EMIRATES** *R.Farda*, Al Dhabbaya APR 8 2300 – Mideast music, shouting, rap music; fair. [Connelly-MA]
- 1413 **SPAIN** *RNE5* synchros APR 2 0158 – Fair with synchro echo; bumper music leading up to news, parallel 1152 and 1305 kHz. [Conti-NH] APR 8 2317 – Telco fidelity man in Spanish; fair. [Connelly-MA]
- 1422 **GERMANY** *Deutschlandfunk*, Heusweiler APR 17 0422 – Good; classical vocal parallel 6190 kHz. [Conti-NH]
- 1476 **SPAIN** *Euskadi Irratia*, Biribilondo APR 2 0213 – Fair; talk parallel 1386 kHz. [Conti-NH]
- 1485 **SPAIN** *SER* synchros APR 2 0227 – Fair with synchro echo; nostalgic vocal and talk parallel 1116 kHz. [Conti-NH] APR 8 2319 – Spanish teletalk; poor. [Connelly-MA]
- 1521 **SAUDI ARABIA** *BSKSA* Duba APR 8 2300 – Drumming, pips, 5-note fanfare, Arabic news by man; loud. [Connelly-MA]
- 1539 **GERMANY** *Evangeliums Rundfunk*, Mainflingen APR 17 0420 – Fair; woman in German, choral music. [Conti-NH]
- 1548 **KUWAIT** *R.Sawa*, Kuwait City APR 8 2301 – Mideast modern dance club male vocal; to fair peak. [Connelly-MA]
- 1557 **FRANCE** *France Info*, Fontbonne APR 8 2322 – Man in French; to fair peak over WQEW slop. [Connelly-MA] APR 17 0423 – Good; talk parallel 1377 kHz. [Conti-NH]

### Trans-Pacific DX

- 1332 unID Asia APR 3 1120 – No audio, but a big carrier smack on 1320 kHz. Lots of Asians here, with China at 100 kW probably the biggest source if not an aggregate of several. [Krueger-FL]

### Pan-American DX

- 570 **CUBA** *CMDC R.Reloj*, Santa Clara APR 16 0536 – Can only hear the code RR under WKBN and CKGL, not the pips or any Spanish. [Frodge-MI]
- 690 **MEXICO** *XERG* Monterrey, NL APR 3 1108 – XE and U.S. oldies tunes; canned "Seis Noventa, La Deportiva" slogans and versions thereof; ads and/or PSAs at 1124. First time heard without their usual sports format. Fair signal with fading under KTSM. [Wilkins-CO]
- 710 **CUBA** *R.Reloj*, unknown location APR 14 0352 – Pips and code RR in mix. Can hear Spanish there. IBOC from up-frequency much worse than 2 hours previous. [Frodge-MI]
- 720 **MEXICO** *XEJCC* Cd. Juárez, Chih APR 13 1200 – "XEJCC Siete Veinte Extremo..."; also mentioned power (20,000 watts?) and address on Avenida Vicente Guerrero; news or news/talk followed with male announcer; PSA at 1211, then entertainment news. Fair signal but tough copy with KSAH interference and splatter from local 710 KNUS. A new one here after many attempts; XE #227 and Chihuahua #48. Ex-1520 kHz. [Wilkins-CO]
- 810 **BAHAMAS** *ZNS3* Freeport APR 12 2301 – Local community announcements for the city of Nassau read by Desmond Saunders, including hospital announcements, child protection orders, caution against mooring boats within protected reef zones, and obituaries. Very good signal with little fading and slight atmospheric noise. My first logging of this particular station. [Gray-FL]

- 860 **MEXICO** XEMO Tijuana, BCN APR 9 1227 – Banda music; "La Poderosa" slogans and "Lo mejor de los 90's, 80's, y 70's en la 860 La Poderosa"; ads at 1232. Fair and all alone briefly before fading. Local 850 KOA IBOC was off this day. Also heard on APR 10 with ID at 1202, announcing 10,000 watts power. [Wilkins-CO]
- 860 **MEXICO** XENL Monterrey, NL APR 10 1130 – ID with call letters, power (5 kW) and the rest garbled. Rough copy but copiable thanks to KOA IBOC being turned off. [Wilkins-CO]
- 870 **MEXICO** XETAR Guachochi, Chih APR 10 1203 – Fiddle music; full ID at 1206: "XETAR La Voz de la Sierra Tarahumara"; also announced address and schedule (6 a.m. - 6 p.m. local); soon faded under KJMP. [Wilkins-CO]
- 1230 **CUBA** *R.Progreso*, unknown site APR 3 0956-1000 – Traditional Cuban vocals, a fraction of a second behind 640. A brief fade up amongst the graveyard noise. Thanks *RealDX* reporters Andrew Brade and Paul Crankshaw, UK via the NRC's IDXD, Vol. 78, No. 24. [Krueger-FL]
- 1250 **MEXICO** XEZT Puebla, Pue MAR 14 0505 – Came out of mix with a short call letter ID announcement into talk before going under to XESJ. [Vance-TX]
- 1270 **MEXICO** XERPL León, Gto MAR 18 0405 – Came up with fast talking DJ giving ID info such as location, frequencies (noventa-tres punto nueve FM y mil doscientos setenta AM), and "La Poderosa" slogan, into taking calls from listeners. Fair-to-poor with fades. They eventually became dominant as the evening progressed but I never heard the call letters mentioned. [Vance-TX]
- 1280 **MEXICO** XECAM Campeche, Camp MAR 19 0655 – Heard off and on mixing with XEBW earlier in the evening; Mexican pop music and finally came up at the right time (during Mexican national anthem from XEAW) to catch a portion of the ID, also announcing parallel XHCAM. Poor when at its best. [Vance-TX]
- 1280 **MEXICO** XEAW Monterrey, NL MAR 19 0655 – Heard with Mexican national anthem mixing with XECAM. ID announcement right after anthem, "Esta es XEAW, mil doscientos ochenta de AM, Monterrey, Nuevo Leon, México," into talk. What a great time for XEBW to fade out! I had first thought the anthem was coming from them. [Vance-TX]
- 1320 **CUBA** *Radio 26*, unknown location APR 4 1029-1055 – Mixing with *R.Artemisa* (see following log) with news items by man, some bumper sound effects. Female "Radio Vientiseis... 6 y 45" time check at 1045. This is a previously unheard *Radio 26*, and the highest channel for *Radio 26* that I'm aware of. [Krueger-FL]
- 1320 **CUBA** *R.Artemisa*, Artemisa APR 4 1029-1055 – This one is indeed still on 1320, confirming that the 1000 (sometimes) *Artemisa* is seemingly sporadically share-timed with the *R.Cadena Habana* transmitter, as per my observations mostly daytime. Tune in to female news items with mentions of Revolución Cubana; Matanzas; informaciones nacionales, Paraguay, 4 de April, Venezuela. Finally, at 1048: "Transmite, transmite Radio Artemisa..." by female. [Krueger-FL]

### Contributors

Mark Connelly WA1ION, South Yarmouth MA; Microtelecom Perseus, west-null SuperLoop, 9-m vertical by 22-m horizontal, base height 1 m.

Bruce Conti, Nashua NH; WiNRADiO Excalibur, 7 x 19.5-m variable termination Split SuperLoop at 60°, 15 x 23-m variable termination north/south SuperLoop.

Harold Frodge, Midland MI; Drake R8B, 125-ft bow-tie, 85-ft random wire, 180-ft center-fed random wire.

Paul Gray NØJAA, Melbourne FL; 2008 Dodge Grand Caravan factory stereo radio.

Terry L. Krueger, Clearwater FL; JRC NRD-535, ICOM IC-R75, Hammarlund HQ-180A, Aqua Guide 705 Radio Direction Finder, Sony ICF-7600GR, GE SuperRadio III, RadioShack DX-399, Sony Walkman SRF-59, RadioShack Pro-60 handheld scanner, RadioShack Pro-2005 scanner, 1 X roof dipole, 1 X in-room random wire, RadioShack 15-1853 passive MW loop, Scotka active MW ferrites loop.

Robert Vance, El Paso TX; WiNRADiO G303e/PD, 12 x 9-ft unterminated corner-fed north-south loop, 3 sq meter amplified air loop.

John Wilkins, Wheat Ridge CO; Drake R8, 4-foot box loop.

### International News

**SWITZERLAND:** 558 *Voice of Russia* officially signing on from Monte Ceneri, logged April 1 with program in German. [MWC via Jim Renfrew]

# *Confirmed DXer*

**Phil Bytheway** phil\_tekno@yahoo.com  
**9705 Mary NW**  
**Seattle, WA 98117-2334**

If you hear from a station you've heard, tell us all about it - pb

- 730 CKAC **PQ**, Montréal. New owners & new staff more QSL friendly! After several s-mail attempts with no success, the 10th! email try worked. This time sent to the new Directeur Général. V/s: Réal Germain, Directeur Général CKAC. **Real.Germain@cogecodiffusion.com**. (MM-Spain)
- 750 XEOH **MEXICO**, Cd. Camargo, Chih. PPC, N/D letter, 19 stickers, and large 400-page book written by the station's Director-General. The book is titled "Radio - Causa y Cauce" and is apparently a manual for students aspiring to enter the radio field. All this in 19 days for a f/up to Camargo with no return postage. Package was sent from Puebla via UPS. PPC was signed by Soledad Sosa Salinas, Gerente General. This was for a 2001(!) logging. XE verie #115. (JW-CO)
- 800 CKLW **ON**, Windsor. Anne Marie Isshack PSA Director **AnneMarie.Isshack@chumradio.com**. Full data QSL letter received in 7 minutes. (KK-VA)
- 850 WFTL **FL**, West Palm Beach. Sent 4th e-f/up. Received f/d email in 2h. V/s: Dave McBride, Program Director. **dave@davemcbride.com**. (MM-Spain)
- 1040 CKST **BC**, Vancouver. PPC in 24 days on 3rd f/up. V/s illegible. (JW-CO)
- 1040 WLWJ **FL**, Boynton Beach. 4th e-f/up for a 2004 s-mail report. Received f/d email in 1d. V/s: Jerry Kiefer, General Manager. **jkiefer@jamescrystal.com**. (MM-Spain)
- 1070 KLIO **KS**, Wichita. PPC in 28 days for f/up. V/S Bob Vandergrift, who says he answered my first report. (JW-CO)
- 1170 HJNW **COLOMBIA**, Caracol Cartagena. No reply from Cartagena so I sent e-f/up to Bogotá. F/d email in 5h. V/s: Martin Espinosa, Comunicaciones. **comunicaciones@caracol.com.co**. (MM-Spain)
- 1240 XEWG **MEXICO**, Cd. Juárez, Chih. PPC in 28 days for f/up. V/s illegible. 116th XE verie on MW, and first on a Graveyard frequency. (JW-CO)
- 1250 WYTH **GA**, Madison. DX Test Chief Engineer Craig Baker, **starstation@bellsouth.net**. QSL letter received in 18 minutes. (KK-VA)
- 1440 BCE **LUXEMBOURG**, R Luxembourg. Sent s-mail report. Received QSL-card, stickers in 2years 8d!! ADDR: B.C.E., TV & Radio Transmissions, 45 Bd. Pierre Frieden, L-1543 Luxemburgo. (MM-Spain)
- 1470 KIID **CA**, Sacramento. PPC, Radio Disney sticker and R.D. pin in 20 days for 4th f/up report. V/S Judy Remy, Stn Mgr. (JW-CO)
- 1470 WKCK **PR**, "CUMBRE 14-70", Orocovis. Sent e-f/up. Received f/d email in 30m. V/s: Julio García, Gerente General. **cumbre1470@yahoo.com**. (MM-Spain)
- 1540 WKVQ **GA**, Eatonton. DX Test Chief Engineer Craig Baker, WKVQ Radio, PO Box 3965, Eatonton, GA 31024-3965. QSL letter received in 7 days. Also received station promo and business card. My \$2US was returned. (KK-VA)
- 1540 ZNS1 **BAHAMAS**, R Bahamas, Nassau. At least a znsbahamas.com email working! Sent 6th e-f/up received f/d email in 15m. V/s: Jason R.A. Saunders, I T Department. **j.saunders@znsbahamas.com**. (MM-Spain)
- 1566 **UK**, Country Sound, Guidlford. Sent e-report. Received email in 13d. V/s: Steve Dean. **studio@countysound.co.uk**. (MM-Spain)
- 1677 **FINLAND**, OFK Turku Radio. Sent e-report. Received f/d email with photo in 3h. V/s: Dan, OH1BB. Turku.Radio (a) liikennevirasto.fi. (MM-Spain)

**Kraig Krist**, KG4LAC, Manasas VA (KK-VA)

**Mauricio Molano**, Salamanca, SPAIN (MM-Spain)

**John Wilkins**, Wheat Ridge, CO (JW-CO)

# CUBA – Medium Wave Reallocation Plan 2009

*Mauricio Molano (Salamanca, Spain)*

“EcuRed. Conocimiento con todos y para todos” (EcuRed. Knowledge with everyone, for everyone). This is the slogan of this Cuban-style “wikipedia.” Hidden inside are very valuable data about the current state of broadcasting on the island, as well as interesting articles on some of the Cuban local radio stations, such as the one for Radio Ciudad Badera (Cárdenas), located at [http://www.ecured.cu/index.php/Radio Ciudad Bandera](http://www.ecured.cu/index.php/Radio_Ciudad_Bandera).



But undoubtedly the most interesting matter from our point of view is the article on RadioCuba:



“RadioCuba currently (2009) provides for the airing of more than one hundred national, provincial, and local radio stations, the national TV networks, and provincial and local telecenters. It has a network with more than 1000 transmitters located in transmitting centers that offer coverage of the majority of the national territory. The company constantly updates and reorganizes the national broadcasting network.”

The installation of Chinese transmitters for the renewal and reorganization of the Cuban medium wave broadcasting network began in 2002. At the time, the equipment installed were TESLA tube transmitters with 20 years of use, NEC units of 30 years, as well as others that were even older. The objective was to increase the number of services broadcast from each “Centro Transmisor de Onda Media” (CTOM, Medium Wave Transmitting Center), while decreasing the number of CTOMs. To achieve this, equipment was installed to allow multiple transmitters to share the same antenna – diplexers (two transmitters), triplexers (three transmitters), and tetraplexers (four transmitters). The contract for the design and manufacture of these devices in the first phase of renovation was awarded to China’s SBL (Shanghai Broadcasting Laboratory)

During the commissioning of facilities some design problems arose on the Chinese diplexers and triplexers, and RadioCuba had to modify several of them on site in order to successfully complete the facilities. Beginning with the second contract, agreement was reached with the Chinese to retain design in Cuban hands, while the Chinese company SBL continued the manufacturing. The transmitters in the second and third contract were installed, and those of the fourth designed, under this arrangement. EcuRed contains articles with very detailed descriptions of some of these CTOMs, as well as the calculations for the design of some of the di- and triplexers:

[http://www.ecured.cu/index.php/Ancho de banda de diplexer y triplexer de AM](http://www.ecured.cu/index.php/Ancho_de_banda_de_diplexer_y_triplexer_de_AM)

[http://www.ecured.cu/index.php/Diplexer del CTOM Villa Clara Progreso](http://www.ecured.cu/index.php/Diplexer_del_CTOM_Villa_Clara_Progreso)

[http://www.ecured.cu/index.php/Triplexer del CTOM Santa Mar% C3% ADa, SC](http://www.ecured.cu/index.php/Triplexer_del_CTOM_Santa_Mar%C3%ADa,_SC)

And, the icing on the cake: We find the list of MW transmitters on the island after the reorganization plan – the most complete and detailed list that has come into our hands for years!



Antena CTOM Imías, Guantánamo

Keep in mind that this shows the status of the Cuban network in 2009. Since then, there have been some changes, beginning with the creation of two new provinces – Artemisa and Mayabeque, split from the La Habana province. This has led to the emergence of two new provincial stations: Radio Mayabeque (the old Radio Güines, elevated in rank and using more transmitters) and Radio Artemisa (which already existed as a local station and now also raised in rank). As a result, the transmitters of Radio Cadena Habana have been transferred to the new provincial stations. At the Artemisa CTOM, Radio Artemisa (local) and Radio Cadena Habana (provincial) shared the antenna, one on 1320 kHz with 1 kW and the other on 1000 kHz with 10 kW. Now, Radio Artemisa is heard, and announces, only 1000 kHz. The transmitter on 1320 either has been switched off or is one of those that have recently been detected outside the plan (1230 Progreso, 1620 another Rebelde, ... who knows!).

The station list is below, first ordered by broadcasting centers, then by frequency. I have added the changes based on the new provincial definitions, so it shows the new provinces and their CTOMs, and the changes in the use of some transmitters.

The information regarding the Santiago de Cuba province is a bit confusing, because the data on EcuRed comes from a .jpg graphic that seems to have its origin in a fax that was not very well received. In the same province, at the Mayarí Arriba CTOM (diplexed with Radio Reloj 880?), a municipal station appears on 1460 kHz that I have been unable to identify, as it is not mentioned in the radiocubana.cu directory or in the web sites of local stations for that province.

SORTED BY CTOM

<b>kHz</b>	<b>kW</b>	<b>Province</b>	<b>CTOM</b>	<b>Station</b>
1320	1	Artemisa	Artemisa	R. Artemisa (*)
1000	10	Artemisa	Artemisa	R. Artemisa
1180	10	Artemisa	Artemisa	R. Rebelde
670	10	Camagüey	C. Brasil	R. Rebelde
1180	10	Camagüey	C. Brasil	R. Rebelde
710	25	Camagüey	Camagüey-1	R. Rebelde
910	25	Camagüey	Camagüey-1	R. C. Agramonte
950	10	Camagüey	Camagüey-2	R. Reloj
630	5	Camagüey	Camagüey-2	R. Progreso
1140	1	Camagüey	Camagüey-2	R. Enciclopedia
1180	50	Camagüey	Camagüey-3	R. Rebelde
670	10	Camagüey	Camagüey-3	R. Rebelde
1180	50	Ciego Ávila	Chambas-1	R. Rebelde
890	200	Ciego Ávila	Chambas-2	R. Progreso
710	200	Ciego Ávila	Chambas-3	R. Rebelde
560	10	Ciego Ávila	Ciego Ávila-1	R. Rebelde
820	10	Ciego Ávila	Ciego Ávila-1	R. Reloj
1180	1	Ciego Ávila	Ciego Ávila-1	R. Rebelde
650	10	Ciego Ávila	Ciego Ávila-2	R. Progreso
930	10	Ciego Ávila	Ciego Ávila-2	R. Surco
670	5	Ciego Ávila	Morón	R. Rebelde
1140	25	Ciego Ávila	Morón	R. Rebelde
1140	10	Cienfuegos	Aguada	R. Rebelde
1350	10	Cienfuegos	Aguada	R. Ciudad del Mar
930	1	Cienfuegos	Cienfuegos	R. reloj
1180	1	Cienfuegos	Cienfuegos	R. Rebelde
610	1	Cienfuegos	Cienfuegos	R. Rebelde
1340	10	Cienfuegos	Palmira	R. Ciudad del Mar
750	10	Cienfuegos	Palmira	R. Progreso
1180	5	Cienfuegos	Tulipán	R. Rebelde
1550	5	Cienfuegos	Tulipán	R. Rebelde
950	10	Ciudad de la Habana	Arroyo Arenas-1	R. Reloj
670	50	Ciudad de la Habana	Arroyo Arenas-1	R. Rebelde
1180	10	Ciudad de la Habana	Arroyo Arenas-2	R. Rebelde
820	10	Ciudad de la Habana	Arroyo Arenas-2	R. Ciudad de la Habana
1180	50	Ciudad de la Habana	Guanabacoa-1	R. Rebelde
640	50	Ciudad de la Habana	Guanabacoa-1	R. Progreso
1620	5	Ciudad de la Habana	Guanabacoa-2	R. Rebelde
980	2,5	Ciudad de la Habana	L. Cruz	R. Coco – CMCK
1180	10	Ciudad de la Habana	Santa Catalina	Emergency
1550	5	Ciudad de la Habana	Santa Catalina	Emergency
670	5	Ciudad de la Habana	Santa Catalina	Emergency (or 710)
530	10	Ciudad de la Habana	V. María	R. Enciclopedia (**)
1080	5	Ciudad de la Habana	V. María	R. Cadena Habana
910	5	Ciudad de la Habana	V. María	R. Metropolitana
1150	10	Granma	Bueycito	R. Bayamo
610	10	Granma	Bueycito	R. Rebelde
870	10	Granma	Bueycito	R. Reloj
1140	1	Granma	Media Luna	R. Bayamo
1260	2.5	Granma	Media Luna	R. Progreso
1000	5	Granma	Media Luna	R. Granma
1160	1	Granma	Pilón	R. Bayamo
920	1	Granma	Pilón	R. Progreso
570	1	Granma	Pilón	R. Rebelde
870	10	Guantánamo	Baracoa	R. Reloj
1020	10	Guantánamo	Baracoa	R. Trinchera Anti.
810	10	Guantánamo	Guantánamo-1	R. Progreso
590	10	Guantánamo	Guantánamo-1	R. Rebelde
1070	10	Guantánamo	Guantánamo-1	R. Trinchera Anti.

960	10	Guantánamo	Guantánamo-2	R. Reloj
1550	1	Guantánamo	Guantánamo-2	R. Rebelde
1620	1	Guantánamo	Guantánamo-3	R. Rebelde
1180	1	Guantánamo	Guantánamo-3	R. Rebelde
530	1	Guantánamo	Guantánamo-3	R. Rebelde
1250	1	Guantánamo	Imías	R. Trinchera Anti.
1180	1	Guantánamo	Mabujabo	R. Rebelde
720	2.5	Guantánamo	Mabujabo	R. Progreso
580	2.5	Guantánamo	Mabujabo	R. Rebelde
1170	10	Guantánamo	Maisí	R. Trinchera Anti.
540	10	Guantánamo	Maisí	R. Rebelde
1180	1	Holguín	Banes	R. Rebelde
1300	1	Holguín	Banes	R. Angulo
1180	50	Holguín	Cacocúm	R. Rebelde
710	50	Holguín	Cacocúm	R. Rebelde
670	10	Holguín	El Coco	R. Rebelde
790	10	Holguín	Holguín	R. Reloj
1110	10	Holguín	Holguín	R. Angulo
1100	1	Holguín	Mayarí	R. Angulo
1490	1	Holguín	Mayarí	R. Mayarí
1180	1	Holguín	Moa	R. Rebelde
980	1	Holguín	Moa	R. Reloj
820	1	Holguín	Moa	R. Progreso
1180	5	Holguín	Sagua de Tánamo	R. Rebelde
740	10	Holguín	Sagua de Tánamo	R. Angulo
600	50	Holguín	San Germán	R. Rebelde
900	50	Holguín	San Germán	R. Progreso
1220	10	Isla Juventud	La Fe	R. Caribe
730	10	Isla Juventud	La Fe	R. Progreso
1180	5	Isla Juventud	Nueva Gerona	R. Rebelde
850	1	Isla Juventud	Nueva Gerona	R. Reloj
1310	1	Isla Juventud	Nueva Gerona	R. Enciclopedia
1180	1	Isla Juventud	Nueva Gerona	(Emergency)
1090	1	Las Tunas	Amancio	R. Victoria
1450	1	Las Tunas	Amancio	R. Maboas
1180	1	Las Tunas	Puerto Padre	R. Rebelde
1350	1	Las Tunas	Puerto Padre	R. Libertad
1050	10	Las Tunas	Victoria de las Tunas-1	R. Victoria
770	10	Las Tunas	Victoria de las Tunas-1	R. Rebelde
640	10	Las Tunas	Victoria de las Tunas-2	R. Progreso
1020	10	Las Tunas	Victoria de las Tunas-2	R. Reloj
670	10	Las Tunas	Victoria de las Tunas-3	R. Rebelde
1180	10	Las Tunas	Victoria de las Tunas -3	R. Rebelde
670	5	Matanzas	Circunvalación	R. Rebelde
1140	5	Matanzas	Circunvalación	R. Rebelde
1550	5	Matanzas	Circunvalación	R. Rebelde
1180	25	Matanzas	Colón	R. Rebelde
620	25	Matanzas	Colón	R. Rebelde
670	1	Matanzas	Cárdenas-1	R. Enciclopedia
1550	5	Matanzas	Cárdenas-1	R. Rebelde
1140	1	Matanzas	Cárdenas-1	R. Ciudad Bandera
1180	5	Matanzas	Cárdenas-2	R. Rebelde
1060	25	Matanzas	Jovellanos	R. 26
660	12	Matanzas	Jovellanos	R. Progreso
860	5	Matanzas	Jovellanos	R. Reloj
1320	1	Matanzas	La Jaiba	R. 26
930	1	Matanzas	La Jaiba	R. Reloj
1180	5	Matanzas	La Jaiba	R. Rebelde
1180	200	Matanzas	Martí	R. Reloj (****)
710	200	Matanzas	Martí	R. Rebelde
1180	10	Mayabeque	Güines	R. Rebelde
1040	10	Mayabeque	Güines	R. Mayabeque

1450	1	Mayabeque	Güines	R. Mayabeque
590	25	Mayabeque	La Julia (Batabanó)	R. Musical Nacional
710	50	Mayabeque	La Julia (Batabanó)	R. Rebelde
1140	25	Mayabeque	La Salud	R. Mayabeque
1180	10	Mayabeque	Santa Cruz del Norte	R. Rebelde
670	5	Pinar del Río	Bahía Honda	R. Rebelde
1020	5	Pinar del Río	Bahía Honda	R. Guamá
1180	5	Pinar del Río	Bahía Honda	R. Rebelde
760	10	Pinar del Río	Guane	R. Progreso
1070	10	Pinar del Río	Guane	R. Guamá
610	10	Pinar del Río	Guane	R. Rebelde
1180	10	Pinar del Río	La Palma	R. Rebelde
710	10	Pinar del Río	La Palma	R. Guamá
670	1	Pinar del Río	Los Palacios	R. Rebelde
970	5	Pinar del Río	Los Palacios	R. Guamá
1180	10	Pinar del Río	Los Palacios	R. Rebelde
670	1	Pinar del Río	Pinar del Río	R. Rebelde
550	12	Pinar del Río	Pinar del Río-1	R. Rebelde
880	12	Pinar del Río	Pinar del Río-1	R. Progreso
1180	10	Pinar del Río	Pinar del Río-1	R. Rebelde
790	25	Pinar del Río	Pinar del Río-2	R. Reloj
990	25	Pinar del Río	Pinar del Río-2	R. Guamá (to 1000?) (***)
1000		Pinar del Río	?	R. Guamá (from 990?) (***)
1180	1	Pinar del Río	San Cristóbal	R. Rebelde
1180	1	Pinar del Río	Santa Lucía	R. Rebelde
1050	1	Pinar del Río	Santa Lucía	R. Guamá
670	1	Pinar del Río	Santa Lucía	R. Rebelde
870	1	Sancti Spíritus	Sancti Spíritus-1	R. Reloj
1210	10	Sancti Spíritus	Sancti Spíritus-1	R. Sancti Spíritus
1180	1	Sancti Spíritus	Sancti Spíritus-2	R. Rebelde
940	1	Sancti Spíritus	Sancti Spíritus-2	R. Progreso
540	1	Sancti Spíritus	Sancti Spíritus-2	R. Rebelde
1190	1	Sancti Spíritus	Trinidad	R. Sancti Spíritus
610	1	Sancti Spíritus	Trinidad	R. Reloj
970	1	Sancti Spíritus	Trinidad	R. Rebelde
850	1	Sancti Spíritus	Trinidad	R. Progreso
710	1	Sancti Spíritus	Yaguajay	R. Rebelde
1200	1	Sancti Spíritus	Yaguajay	R. Sancti Spíritus
1550	1	Sancti Spíritus	Yaguajay	R. Rebelde
1190	10	Santiago de Cuba	Chivirico	R. Coral/CMKC-R. Revolución
760	?	Santiago de Cuba	Mayarí Arriba	R. Progreso
1180	?	Santiago de Cuba	Mayarí Arriba	R. Rebelde
950	?	Santiago de Cuba	Mayarí Arriba	CMKC-R. Revolución
880?	?	Santiago de Cuba	Mayarí Arriba-2	R. Reloj
1460	?	Santiago de Cuba	Mayarí Arriba-2	Em. ?
1520	?	Santiago de Cuba	Palma Soriano	Em.-R. Baraguá
840	10	Santiago de Cuba	Palma Soriano	CMKC-R. Revolución
650	5(?)	Santiago de Cuba	Santiago de Cuba-1	R. Rebelde
890	?	Santiago de Cuba	Santiago de Cuba-1	CMKC-R. Revolución
1160	?	Santiago de Cuba	Santiago de Cuba-1	R. Enciclopedia
600	5	Santiago de Cuba	Santiago de Cuba-2	R. Progreso
930		Santiago de Cuba	Santiago de Cuba-2	R. Reloj
1280	?	Santiago de Cuba	Santiago de Cuba-2	R. Mambó
1550	1	Villa Clara	Sagua la Grande	R. Rebelde
1180	10	Villa Clara	Sagua la Grande	R. Rebelde
1400	1	Villa Clara	Sagua la Grande	R. Sagua
570	25	Villa Clara	Santa Clara-1	R. Reloj
710	50	Villa Clara	Santa Clara-1	R. Rebelde
1180	10	Villa Clara	Santa Clara-2	R. Rebelde
840	10	Villa Clara	Santa Clara-2	CMHW
1140	10	Villa Clara	Santa Clara-3	R. Rebelde
690	10	Villa Clara	Santa Clara-3	R. Progreso



670	50	Villa Clara	Santa Clara-4	R. Rebelde
1550	10	Villa Clara	Santa Clara-4	R. Rebelde
1620	? ?		?	R. Rebelde



### SORTED BY FREQUENCY

<b>kHz</b>	<b>kW</b>	<b>Province</b>	<b>CTOM</b>	<b>Station</b>
530	10	Ciudad de la Habana	V. María	R. Enciclopedia (**)
530	1	Guantánamo	Guantánamo-3	R. Rebelde
540	10	Guantánamo	Maisí	R. Rebelde
540	1	Sancti Spíritus	Sancti Spíritus-2	R. Rebelde
550	12	Pinar del Río	Pinar del Río-1	R. Rebelde
560	10	Ciego Ávila	Ciego Ávila-1	R. Rebelde
570	1	Granma	Pilón	R. Rebelde
570	25	Villa Clara	Santa Clara-1	R. Reloj
580	2.5	Guantánamo	Mabujabo	R. Rebelde
590	10	Guantánamo	Guantánamo-1	R. Rebelde
590	25	Mayabeque	La Julia (Batabanó)	R. Musical Nacional
600	50	Holguín	San Germán	R. Rebelde
600	5	Santiago de Cuba	Santiago de Cuba-2	R. Progreso
610	1	Cienfuegos	Cienfuegos	R. Rebelde
610	10	Granma	Bueycito	R. Rebelde
610	10	Pinar del Río	Guane	R. Rebelde
610	1	Sancti Spíritus	Trinidad	R. Reloj
620	25	Matanzas	Colón	R. Rebelde
630	5	Camagüey	Camagüey-2	R. Progreso
640	50	Ciudad de la Habana	Guanabacoa-1	R. Progreso
640	10	Las Tunas	Victoria de las Tunas-2	R. Progreso
650	10	Ciego Ávila	Ciego Ávila-2	R. Progreso
650	5(?)	Santiago de Cuba	Santiago de Cuba-1	R. Rebelde
660	12	Matanzas	Jovellanos	R. Progreso
670	10	Camagüey	C. Brasil	R. Rebelde
670	10	Camagüey	Camagüey-3	R. Rebelde
670	5	Ciego Ávila	Morón	R. Rebelde
670	50	Ciudad de la Habana	Arroyo Arenas-1	R. Rebelde
670	5	Ciudad de la Habana	Santa Catalina	Emergency (or 710)
670	10	Holguín	El Coco	R. Rebelde
670	10	Las Tunas	Victoria de las Tunas-3	R. Rebelde
670	1	Matanzas	Cárdenas-1	R. Enciclopedia
670	5	Matanzas	Circunvalación	R. Rebelde
670	5	Pinar del Río	Bahía Honda	R. Rebelde
670	1	Pinar del Río	Los Palacios	R. Rebelde
670	1	Pinar del Río	Pinar del Río	R. Rebelde
670	1	Pinar del Río	Santa Lucía	R. Rebelde
670	50	Villa Clara	Santa Clara-4	R. Rebelde
690	10	Villa Clara	Santa Clara-3	R. Progreso
710	25	Camagüey	Camagüey-1	R. Rebelde

710	200	Ciego Ávila	Chambas-3	R. Rebelde
710	50	Holguín	Cacocúm	R. Rebelde
710	200	Matanzas	Martí	R. Rebelde
710	50	Mayabeque	La Julia (Batabanó)	R. Rebelde
710	10	Pinar del Río	La Palma	R. Guamá
710	1	Sancti Spíritus	Yaguajay	R. Rebelde
710	50	Villa Clara	Santa Clara-1	R. Rebelde
720	2.5	Guantánamo	Mabujabo	R. Progreso
730	10	Isla Juventud	La Fe	R. Progreso
740	10	Holguín	Sagua de Tánamo	R. Angulo
750	10	Cienfuegos	Palmira	R. Progreso
760	10	Pinar del Río	Guane	R. Progreso
760	?	Santiago de Cuba	Mayarí Arriba	R. Progreso
770	10	Las Tunas	Victoria de las Tunas-1	R. Rebelde
790	10	Holguín	Holguín	R. Reloj
790	25	Pinar del Río	Pinar del Río-2	R. Reloj
810	10	Guantánamo	Guantánamo-1	R. Progreso
820	10	Ciego Ávila	Ciego Ávila-1	R. Reloj
820	10	Ciudad de la Habana	Arroyo Arenas-2	R. Ciudad de la Habana
820	1	Holguín	Moa	R. Progreso
840	10	Santiago de Cuba	Palma Soriano	CMKC-R. Revolución
840	10	Villa Clara	Santa Clara-2	CMHW
850	1	Isla Juventud	Nueva Gerona	R. Reloj
850	1	Sancti Spíritus	Trinidad	R. Progreso
860	5	Matanzas	Jovellanos	R. Reloj
870	10	Granma	Bueycito	R. Reloj
870	10	Guantánamo	Baracoa	R. Reloj
870	1	Sancti Spíritus	Sancti Spíritus-1	R. Reloj
880?	?	Santiago de Cuba	Mayarí Arriba-2	R. Reloj
880	12	Pinar del Río	Pinar del Río-1	R. Progreso
890	200	Ciego Ávila	Chambas-2	R. Progreso
890	?	Santiago de Cuba	Santiago de Cuba-1	CMKC-R. Revolución
900	50	Holguín	San Germán	R. Progreso
910	25	Camagüey	Camagüey-1	R. C. Agramonte
910	5	Ciudad de la Habana	V. María	R. Metropolitana
920	1	Granma	Pilón	R. Progreso
930	10	Ciego Ávila	Ciego Ávila-2	R. Surco
930	1	Cienfuegos	Cienfuegos	R. reloj
930	1	Matanzas	La Jaiba	R. Reloj
930		Santiago de Cuba	Santiago de Cuba-2	R. Reloj
940	1	Sancti Spíritus	Sancti Spíritus-2	R. Progreso
950	10	Camagüey	Camagüey-2	R. Reloj
950	10	Ciudad de la Habana	Arroyo Arenas-1	R. Reloj
950	?	Santiago de Cuba	Mayarí Arriba	CMKC-R. Revolución
960	10	Guantánamo	Guantánamo-2	R. Reloj
970	5	Pinar del Río	Los Palacios	R. Guamá
970	1	Sancti Spíritus	Trinidad	R. Rebelde
980	2,5	Ciudad de la Habana	L. Cruz	R. Coco – CMCK
980	1	Holguín	Moa	R. Reloj
990	25	Pinar del Río	Pinar del Río-2	R. Guamá (to 1000?) (***)
1000	10	Artemisa	Artemisa	R. Artemisa
1000	5	Granma	Media Luna	R. Granma
1000		Pinar del Río	?	R. Guamá (from 990?) (***)
1020	10	Guantánamo	Baracoa	R. Trinchera Anti.
1020	10	Las Tunas	Victoria de las Tunas-2	R. Reloj
1020	5	Pinar del Río	Bahía Honda	R. Guamá
1040	10	Mayabeque	Güines	R. Mayabeque
1050	10	Las Tunas	Victoria de las Tunas-1	R. Victoria
1050	1	Pinar del Río	Santa Lucía	R. Guamá
1060	25	Matanzas	Jovellanos	R. 26
1070	10	Guantánamo	Guantánamo-1	R. Trinchera Anti.
1070	10	Pinar del Río	Guane	R. Guamá

1080	5	Ciudad de la Habana	V. María	R. Cadena Habana
1090	1	Las Tunas	Amancio	R. Victoria
1100	1	Holguín	Mayarí	R. Angulo
1110	10	Holguín	Holguín	R. Angulo
1140	1	Camagüey	Camagüey-2	R. Enciclopedia
1140	25	Ciego Ávila	Morón	R. Rebelde
1140	10	Cienfuegos	Aguada	R. Rebelde
1140	1	Granma	Media Luna	R. Bayamo
1140	1	Matanzas	Cárdenas-1	R. Ciudad Bandera
1140	5	Matanzas	Circunvalación	R. Rebelde
1140	25	Mayabeque	La Salud	R. Mayabeque
1140	10	Villa Clara	Santa Clara-3	R. Rebelde
1150	10	Granma	Bueycito	R. Bayamo
1160	1	Granma	Pilón	R. Bayamo
1160	?	Santiago de Cuba	Santiago de Cuba-1	R. Enciclopedia
1170	10	Guantánamo	Maisí	R. Trinchera Anti.
1180	10	Artemisa	Artemisa	R. Rebelde
1180	10	Camagüey	C.Brasil	R. Rebelde
1180	50	Camagüey	Camagüey-3	R. Rebelde
1180	50	Ciego Ávila	Chambas-1	R. Rebelde
1180	1	Ciego Ávila	Ciego Ávila-1	R. Rebelde
1180	1	Cienfuegos	Cienfuegos	R. Rebelde
1180	5	Cienfuegos	Tulipán	R. Rebelde
1180	10	Ciudad de la Habana	Arroyo Arenas-2	R. Rebelde
1180	50	Ciudad de la Habana	Guanabacoa-1	R. Rebelde
1180	10	Ciudad de la Habana	Santa Catalina	Emergency
1180	1	Guantánamo	Guantánamo-3	R. Rebelde
1180	1	Guantánamo	Mabujabo	R. Rebelde
1180	1	Holguín	Banes	R. Rebelde
1180	50	Holguín	Cacocúm	R. Rebelde
1180	1	Holguín	Moa	R. Rebelde
1180	5	Holguín	Sagua de Tánamo	R. Rebelde
1180	1	Isla Juventud	Nueva Gerona	(Emergency)
1180	5	Isla Juventud	Nueva Gerona	R. Rebelde
1180	1	Las Tunas	Puerto Padre	R. Rebelde
1180	10	Las Tunas	Victoria de las Tunas -3	R. Rebelde
1180	5	Matanzas	Cárdenas-2	R. Rebelde
1180	25	Matanzas	Colón	R. Rebelde
1180	5	Matanzas	La Jaiba	R. Rebelde
1180	200	Matanzas	Martí	R. Reloj (****)
1180	10	Mayabeque	Güines	R. Rebelde
1180	10	Mayabeque	Santa Cruz del Norte	R. Rebelde
1180	5	Pinar del Río	Bahía Honda	R. Rebelde
1180	10	Pinar del Río	La Palma	R. Rebelde
1180	10	Pinar del Río	Los Palacios	R. Rebelde
1180	10	Pinar del Río	Pinar del Río-1	R. Rebelde
1180	1	Pinar del Río	San Cristóbal	R. Rebelde
1180	1	Pinar del Río	Santa Lucía	R. Rebelde
1180	1	Sancti Spíritus	Sancti Spíritus-2	R. Rebelde
1180	?	Santiago de Cuba	Mayarí Arriba	R. Rebelde
1180	10	Villa Clara	Sagua la Grande	R. Rebelde
1180	10	Villa Clara	Santa Clara-2	R. Rebelde
1190	1	Sancti Spíritus	Trinidad	R. Sancti Spíritus
1190	10	Santiago de Cuba	Chivirico	R. Coral/CMKC-R. Revolución
1200	1	Sancti Spíritus	Yaguajay	R. Sancti Spíritus
1210	10	Sancti Spíritus	Sancti Spíritus-1	R. Sancti Spíritus
1220	10	Isla Juventud	La Fe	R. Caribe
1230	-	?	?	R. Progreso (+)
1250	1	Guantánamo	Imías	R. Trinchera Anti.
1260	2.5	Granma	Media Luna	R. Progreso
1280	?	Santiago de Cuba	Santiago de Cuba-2	R. Mambó
1300	1	Holguín	Banes	R. Angulo

1310	1	Isla Juventud	Nueva Gerona	R. Enciclopedia
1320	1	Artemisa	Artemisa	R. Artemisa (*)
1320	1	Matanzas	La Jaiba	R. 26
1340	10	Cienfuegos	Palmira	R. Ciudad del Mar
1350	10	Cienfuegos	Aguada	R. Ciudad del Mar
1350	1	Las Tunas	Puerto Padre	R. Libertad
1400	1	Villa Clara	Sagua la Grande	R. Sagua
1450	1	Las Tunas	Amancio	R. Maboas
1450	1	Mayabeque	Güines	R. Mayabeque
1460	?	Santiago de Cuba	Mayarí Arriba-2	Em. ?
1490	1	Holguín	Mayarí	R. Mayarí
1520	?	Santiago de Cuba	Palma Soriano	Em.-R. Baraguá
1550	5	Cienfuegos	Tulipán	R. Rebelde
1550	5	Ciudad de la Habana	Santa Catalina	Emergency
1550	1	Guantánamo	Guantánamo-2	R. Rebelde
1550	5	Matanzas	Cárdenas-1	R. Rebelde
1550	5	Matanzas	Circunvalación	R. Rebelde
1550	1	Sancti Spíritus	Yaguajay	R. Rebelde
1550	1	Villa Clara	Sagua la Grande	R. Rebelde
1550	10	Villa Clara	Santa Clara-4	R. Rebelde
1620	5	Ciudad de la Habana	Guanabacoa-2	R. Rebelde
1620	1	Guantánamo	Guantánamo-3	R. Rebelde
1620	?	?	?	R. Rebelde (+)



CTOM Sta. Clara-Progresso

ABCDE-1 – The number indicates a group of transmitters sharing the same antenna in a certain CTOM.

(\*) Radio Artemisa transmitter possibly now used for another station, or switched off.

(\*\*) Originally listed as R. Rebelde.

(\*\*\*) R. Guamá is heard on 1000 but is listed on 990. It may be a last-minute frequency change.

(\*\*\*\*) Seems a mistake; probably R. Rebelde.

(+) Not listed in original plan; heard by DXers.

From the above listing, the enormous effort put into trying to block signals coming from the USA is evident. This is especially intense against Radio Martí-1180 (36 transmitters listed) and WWFE-670 (14 transmitters). We should add to this, perhaps, the tendency observed in recent times to not switch off the transmitters of local and regional stations that do not produce 24 hours of programming. Some provincial stations have been observed remaining on the air broadcasting the signal of Radio Rebelde or Radio Progreso. Thus, a local station that relays its provincial station at the end of its own programming ends up rebroadcasting a national station, causing confusion for half the world's DXers. Thus, Radio COCO (a local station for Havana) has been heard relaying Radio Cadena Habana (provincial) and Radio Rebelde (national). Or Radio Mayabeque (provincial) rebroadcasting, late at night, the signal of Rebelde. I suppose this may be helped by the lower consumption and better efficiency of all these new Chinese transmitters (and Canadian too, Nautel) installed recently. Our hope is that the author of the article in EcuRed updates it regularly with changes as they occur!

Source: *Base de datos plan de reordenamiento de OM, 2009-1, José Manuel León Palou, Radiocuba, Dirección Técnica, La Habana 2010, en EcuRed: <http://www.ecured.cu>*



# *DX Tool Box*      **Shawn Axelrod** [amandx@mymts.net](mailto:amandx@mymts.net) **30 Becontree Bay** **Winnipeg, MB R2N 2X9 CANADA**

## **Improving your DX skills – tips from new and veteran members**

Greetings once again from the Heart of the Continent and welcome to the DX Tool Box Column number 28. This month we will look at favourite receivers. Here is what fellow members have to say:

*Marc DeLorenzo, South Dennis, Cape Cod, Massachusetts* – The favorite receiver I have USED is the Perseus because of its ability to record the entire MW band, its spectrum analyzer that enables the user to "see" the signals before taking the time to listen, its variable bandwidth, and no doubt a few functions I haven't even discovered yet. The favorite receiver I have OWNED is my current receiver, the JRC NRD-525 because of its excellent combination of sensitivity, selectivity, digital readout, 200 memories, direct keypad entry, USB/LSB/CW modes, and notch filter to eliminate hets.

*Frederick Vobbe* – It's really a toss-up, but I'll go with the GE SuperRadio III. Although it's not a "DX Machine", it's served me well in urban areas, as well as camping trips in upper Michigan and Canada. The one factor I love the best is the quality of audio in the wide-band mode. It makes the audio very intelligible and music sounds great. In the narrow mode I've been able to get 1160-Chicago with a local 1150 on. The only drawback is the large skirts on the front end which make it a pain to deal with an adjacent channel IBOC station, (or co-channel), but over all this is my favorite radio. If I want to seriously DX, then I turn to the tried and true, Sony 2010, my #2.

*Wayne Heinen* – Hands down my Drake R8B ... My trustee side kick since my wife bought it as a birthday gift for me... for my 53rd birthday 8 years ago today March 9.

*Jim Renfrew* – I didn't obey your rules, and answered more expansively! Favorite receivers: My first: Heathkit GR-81- a total whistle box that my Dad and I built when I was about 13, but my first DX machine. I later graduated to a DX-100 (Realistic or similar, I can't remember), then the Sony 2001 (until the buttons gave out), and then the Sony 2010 (button problems there, too) Most impressive: Hammarlund HQ-180 - after having read in DX News for years that the most prolific DX'ers used this, I finally bought one around 1983. Probably the finest analog DX machine ever. This is one hefty unit (though not nearly the poundage of the HQ-150 I once had!), not easily transported to other locations, warms up the room with all the tubes, and for the first time gave me the opportunity to fine tune splits with the Q-Multiplier. Most Useful: Drake R-8B is my current receiver. 10 KHz to 30 MHz range, 1000 memories, passband, notch, USB/LSB, tunes to the hundredth kHz, and did I mention the 1000 memories? The Drake R8 I bought from Mark Connelly is still on hand, but not as useful with "only" 100 memories. I have set up the R8B so I can easily tune through 10 kHz and 9 KHz channels with the step button. One memory button allows a quick toggle between two frequencies, which really helps comparison with parallels. It's a tabletop receiver, but much easier to transport than the old Hammarlund, so it goes with me to Newfoundland in a metal case each time. Beyond Impressive: Perseus SDR - this is an incredible unit. About the size of a paperback book, and negligible weight. It doesn't look like a radio, but when you add an antenna and attach it to a computer; all the controls are on the computer screen. All kinds of bells and whistles to play with to separate weak signals from the QRM. Read out is to the one thousandth kHz. The "waterfall" feature shows signals as bright lines, and you can "zoom" to see a visible separation between dominant and off-channel weak signals. Aside from being an incredible receiver, it also has the capacity to record 1600 kHz wide files that can be reviewed later - allowing the user to tune up and down the entire LW and MW dial within that saved file at a later time. It can also be used for shortwave, and with an additional unit can do the same 1600 kHz width on FM (that's about 6 FM channels). In reviewing just a few of these files from Newfoundland I was able to find at least 30 new Iranian stations by nailing the interval signal that would have escaped me in real time, and I'm looking forward to reviewing the files that cover the Indian sign-on and late morning TPs. The downside to the Perseus' recording ability is that it takes forever to go through these files, so not the best option for daily DX'ing, but a gold mine for reviewing material after a DX'pedition to some exotic locale.

*Tom Jasinski, Joliet IL* – Drake R8A, purchased 14 years ago. Only used for AM BCB DX'ing Have used radio inside from 120VAC and powered from 12V in car at nearby parks. Major feature - Ease of tuning and stability (compared to some of my old tube sets and transistor sets) Almost always set on 2.3khz bandwidth in either LSB or USB depending on interference Dual VFO's and antennas; one for BCB with Quantum Loop, the second set up for WWV 5mhz or 10mhz with

separate 40 foot LW antenna. This feature allows rapid switching between BCB and WWV for time stamping recordings with one push of a button. Excellent sensitivity and selectivity Use the two timer functions daily Line output used for recording, recently with a new digital VOX operated recorder Undesirable features: Don't use or need all the memory channels. Would desire instead the space/chips were used for many more timer on/off functions. A back lighted button panel would be very helpful to use radio in dark or dimly lit setting. Problems: Radio was sent back to Drake for a noise blanker issue in 2003. Never used this feature but it began to fail and started "blanking" intermittently and then all the time causing badly distorted audio. Drake fixed the problem by replacing some chips and a crystal.

I will have to go with my good old ICOM IC-R70. I bought this receiver in September 1983 and have used it regularly since then. I have added some great mods over the years including the PLAM board. This works like a synchronous detector on my Drake R8 but works in USB or LSB so it is much more sensitive and is not affected by changing frequencies. This radio has logged a lot of countries from Longwave on through 30 MHz. The receiver is very stable and with the PLAM board on it is incredibly sensitive especially with the FL-44A narrow SSB filter. It will in many cases outperform the Drake R8 although the audio is not as good as the Drake. For an all around classic radio the IC-R70 is the one for me.

### **Bits and Bites from the NRC Listserve:**

*Winter can be fun* – From Saul Chernos (sauldx@sympatico.ca) – The Ice BOG Cometh.

There's been some discussion on the WTFDA Forums about a BOG I've been using here at Burnt River ON, where I've placed them atop the ice of frozen Four Mile Lake. I'm reprinting my posts, leaving the interlocutors unIDed save their location because I have not asked them. I'm moving the discussion to the lists (partly because it originated in an area meant for solving unIDs).

MY INITIAL MARCH 20 POST: Looks like I'm headed back to Burnt River for more punishment tomorrow. With the spring thaw upon us a bit early, I was feeling disappointed that I'd likely be removing the BOG wires from the ice for the last time this season, as it will likely be mildly unsafe to venture back onto the lake to put them back. But at the last minute I decided that if the lake is unsafe for walking, there'll likely be no snowmobile traffic to chew up the wires, or get snarled in them. And the ice is covered in small patches of water. I'll likely leave them in until the ice breaks up (usually mid-April, may be earlier this year). At that point, if the wires are still intact I'll pull them out from the shore. (Ice is powerful, won't surprise me if the ice breakup rips the wires to shreds...and I'm curious to see what does unfold). Late last winter was the first time I've ever put BOGs on lake ice, and I can say that the results have been uniformly incredible. Almost every time I've been at the dials, the DX has been phenomenal. I have been getting 3-5 new stations some days, and I'm closing in on 2000, so it's no mean feat to do that. Normally I'm happy to get one new catch every two days of intense time at the dials, maybe one or two in a week when I'm more casual about it. I don't think it's conditions. I think I've hit on something good with the BOGs on Lake Ice, and you can bet I'll be at it when the lake freezes over again next winter (often by Christmas).

LOUISIANA, MARCH 21: Saul, that is very interesting about the antennas in ice. That sure worked well for you. I know you have an AOR receiver. How many receivers are you using?

SAUL MARCH 21: Mainly the AOR. One is enough to keep me more than busy. I have two dormant Sangean ATS 909 portables that are now relegated mainly to FM. Occasionally I will attach one to a radio shack loop, but have just purchased a larger loop that should arrive soon (for the AOR). I have a Tecsun 380 modified with a loopstick, but again I just use it for nulls. Much as these ULRs are fun and useful in certain ways, I'm not finding anywhere close to the same results as I am with the AOR. When I have a thousand to spend on another radio I see getting a Perseus. I might add to my point about the Ice BOGs. They are also aimed west and southwest, whereas I probably maxed out the east, northeast and southeast BOGs. They're all unterminated, but my radio to some degree acts as a terminator. But I'm getting much less QRM from the back end with the ice BOGs than I was getting from the west with the ones running easterly through forest. I have no solid proof - may be the lack of tree cover, or the proximity to water, or the very straight line on ice (no trees to force small bends and curves, and I'm able to grave the wire at the far end and with some muscle make it taut and straight (I even moved it a few degrees once that way without having any impediments). I guess you don't have much lake ice down your way...

SAUL MARCH 21: Well, BOG on Ice season seems about done for here. Got up a few hours ago. My SSW wire is out on the lake but got pulled a bit by a snowmobile. Which surprises me given that the lake has had water on top of the ice since I left here, and it's been mostly raining. But a neighbour told me they indeed were out after I left... This wire seems somewhat okay - a bit loopy in the middle but I'll likely have sufficient directionality. The west wire is a different story. A snowmobile took one end for a real ride, and I retrieved the spool end about 30 feet from shore. And I'm lucky to have it. The ice is solid enough in shore, but could see a large hole maybe 20 feet

further, in the direction I would have had to go to set it back out. The spring thaw has arrived. I like DX'ing, but not enough to risk my life. This wire goes west then arcs south. We'll see what it does. I have set a short wire due south through the woods Cx seem to be heading back to auroral, a bit at least. I'll leave the BOG Ice wires where they are, maybe tinker a bit close to shore where I am safe (just 2-3 feet of water) when it's daylight. And when I leave on Saturday morning I'll pull the wires out for the season. No matter, have a Quantum Loop coming soon in the mail. The Iceman will Cometh back next winter.

SAUL, MARCH 22: After dawn today, I looked out, and it was clear the hole in the ice was an exception to the rule, seemed too even and completely surrounded by thick white ice. To get a closer look, put some skis on to distribute my weight and took some other emergency gear and indeed everything is more than solid, though this will definitely be my last ICE BOG DX'pedition of the season as I don't think I'll be able to get up here again until mid-late April, and so I will remove the wire when I leave. Salvaged both wires best I could, though have lost the ends off each to snowmobiles. Straightened them and added a bit of wire from my salvage-wire spool. Put the west back in action and on post-sunrise Greyline (0830-0900 EDT) nabbed SD 1140, MN 1420 and 1500, WI 1510 with something potentially interesting underneath, WI 1590. Nothing new. But I've not come up here for naught.

ILLINOIS, MARCH 22: You do lots better there after sunrise than I do here in IL, since there's too many locals/semi locals on here with day power to clutter up the band. How long are those BOGs on the lake? How good is your daytime reception? Can you get good copy of the Chicago clears? What about WCCO or anything out of WI?

SAUL, MARCH 22: I had 1140 SD well after 0900 EDT today. Along with WI, MN, IL and MI - mostly on the upper half of the band. I've been working during the day here, so soon as things begin to fade and there's no potential for new catches, I generally shut it down. I'll take a look tomorrow midday, out of curiosity. I am getting the 1620 out of Lake County IL too frequently for these to be 5 watts. Also getting stuff like 1570 Harvey IL a lot on the west and even SW BOG. Each is now 300-400 feet.

TODAY, MARCH 24: What a difference a few freezing cold nights, close to zero F, make! The ice is solid and thickened from what it was. I'd be stupid to drive a pick-up on it, but it's more than fine with skis to distribute my weight (and it'd be great for skating if I had a pair). I've straightened the wires even more than I did a couple days ago, because cx and performance has been slightly below what I've come to experience thus far. And I've added a small amount of wire to each, and changed the direction a bit. This is easy on ice, because you just tug hard at the far end and move it. Now it's more due west than WSW, and the other is more SW than SSW. Still, even with the downturn in cx/performance described above, I've still netted one new station this last few days - 1490 WIGM in Medford WI. Relogs have included GYers from Duluth MN, at about 600 miles, and several from WI Rice Lake, Fond du Lac etc). Also frequent reception of a supposed 5-watt TIS from Lake County IL on 1620. Hard to believe it's really only 5 watts. Plus assorted regionals from MN, IL, TN, KY and WI. Picking up relatively little off the back or sides, except when cx are truly hot in another direction or when cx drop entirely to the west-SW (i.e., daytime semi-locals come in the back). This is something I've really only done this year. I tried it briefly last March for a few days and one night had unprecedented nighttime reception to BC and AB, including new catches such as 930 Edmonton, which I never expected to catch here. I consider this an experiment in progress. I have not run parallel sessions with antennae pointed east and elsewhere through a forest. Though I do have one very short one running south through the woods, mainly to maximize from recent auroral cx. Happy to see any discussion should that emerge. Has anyone else tried this? Saul Chernos Burnt River ON

From Doug Smith (w9wi@earthlink.net) – 70th anniversary missed

<http://www.wired.com/thisdayintech/2011/03/0329radio-stations-shuffle-frequencies/>

Darn it. \*Yesterday\* was the 70th anniversary of the Big Shift. 80% of AM stations changed frequencies - nearly all of them in large blocks establishing the AM band we have today. Doug Smith W9WI Pleasant View, TN EM66

From Rick Dau (drummer1965usa@yahoo.com) – 30 years of skywave DXing

In my 2nd-story bedroom in my parents' farmhouse in the middle of Pottawattamie County, Iowa, I'm already up, as usual, listening to the conclusion of WOW-590's nightly broadcast of the Larry King Show. And, as usual, WOW heads right into its mix of Top 40 and AdCon music immediately afterwards. The first song is one that I don't particularly care for, so I tune up the dial until I find a station that is playing a song that I really like at the time, Roseanne Cash's "Seven Year Ache". At the end of the song, the DJ (whom, I would find out years later, was the legendary Bill Mack) comes on and mentions during his chatter that I'm listening to WBAP. I give no second

thought to this, although I'm curious as to where this station is, since I've never heard it before and it sounds like it's coming from Omaha. Then I hear an advertisement that mentions...FORT WORTH. I'm floored by this, as I had no idea my GE clock radio could pick up anything that distant. Over the course of the next few mornings, I hear places like Los Angeles, Nashville, New York City, Chicago, Cincinnati, Toronto, Detroit, Louisville, Denver, New Orleans, Winnipeg, Dallas, Little Rock, Richmond, San Antonio, and others. And at the age of 16, I'm hooked. And THAT is how it all began. :) And "Seven Year Ache" still has a special place in my heart. 73, Rick Dau South Omaha, Nebraska

### This month's DX Tool Box web site is

Radio's Online Library, located at <http://www.davidgleason.com/index.htm>

This site is yet another historical site about radio. David Gleason runs the site and has set out a ton if not more of reading material for years gone by. David has scanned in radio books and magazines that will be of interest to anyone in the Hobby. He has material from:

- Broadcasting Yearbook – 50 years worth
- Broadcasting Magazine – 2500 issues
- Radio Daily Annual – 25 issues
- Variety Annual – 2 copies from the 1930's
- Radex – 100 issues
- R&R Ratings Directories – 17 issues
- White's Log and Stevenson's Log – 100 issues
- Communications Magazine – 48 editions
- Broadcast Equipment Catalogs – Various suppliers
- Vane Jones/Sams – 12 editions

This is a treasure trove of info you will not be able to get enough of.

73 for this time Shawn

### Remember On A Clear Day You Can Hear Forever

## Geomagnetic Indices (From Phil Bytheway)

Geomagnetic summary tabulated from daily e-mail data.

Date	Flux	A	K	Space Wx	Date	Flux	A	K	Space Wx	Date	Flux	A	K	Space Wx	
3/	1	111	25	4	minor	12	121	12	3	no storms	22	100	8	1	minor
	2	113	15	3	no storms	13	113	5	1	no storms	23	105	12	2	minor
	3	121	14	3	no storms	14	107	2	0	minor	24	108	3	1	minor
	4	127	11	2	no storms	15	102	1	0	minor	25	113	3	1	minor
	5	135	5	1	no storms	16	95	1	1	no storms	26	115	1	0	minor
	6	143	4	2	no storms	17	90	2	1	no storms	27	117	1	2	no storms
	7	153	9	2	minor	18	88	2	0	moderate	28	119	1	1	no storms
	8	155	4	1	moderate	19	89	5	1	no storms	29	116	2	2	no storms
	9	143	5	1	<b>strong</b>	20	92	5	2	no storms	30	118	5	1	no storms
	10	131	13	3	<b>strong</b>	21	101	4	3	minor	3/31	113	3	1	no storms
	11	123	25	5	minor										

## NOAA Space Weather Outlook

Issued April 19 – For the period April 20-May 16, 2011

Solar activity is expected to be low with C-class flares likely during the period. There will be a chance for moderate activity (isolated M-class flares) during the second half of the period due to the return of previously active regions.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at normal to moderate levels during most of the period. However, high flux levels are expected during 22 - 23 April, 30 April - 03 May, and 11 - 13 May.

Geomagnetic field activity is expected to be at quiet to unsettled levels during 20 - 22 April due to weak coronal hole effects on 20 - 21 April and weak coronal mass ejection effects on 22 April (associated with the Earth-directed coronal mass ejection observed on 15 April). Activity is expected to decrease to quiet levels during 23 - 27 April. Field activity is expected to increase to quiet to active levels during 28 April - 01 May due to recurrent coronal hole effects. Activity is expected to decrease to quiet levels during 02 - 07 May. Activity is expected to increase to quiet to active levels during 08 - 11 May due to recurrent coronal hole effects. Quiet conditions are expected during 12 - 16 May.

(From <http://www.swpc.noaa.gov/ftplib/weekly/WKHF.txt>)



## MARCH 2011 DX TEST REPORT

Here is the list of who heard what - or tried and didn't - or maybe did. Please excuse the delay in sending this. I am having computer troubles to the extreme. The only good news being that the new lap and notebook systems I've just bought are being set up this afternoon. This list is based on reports to four lists I subscribe to, and from people who have independently e-mailed me. Most cool, of course, is the reception in New Zealand of WKVQ, as well as various TA receptions. It's not meant to be a complete list of every one who heard the tests, but an indicator of where the tests were heard, or not heard, or possibly/marginally heard. Enjoy!

Saul Chernos

For the IRCA-NRC DX Test Committee

### 1440 WFNy Gloversville NY

#### Heard

\* MN George Sherman – Heard what may have been code at start, partial calls, assorted sound –

This appears to be the farthest reception reported to the DX lists

DC Bill Whitacre	OH David Faulkner	WI Bill Dvorak
IL Tom Jasinski	PA Brett Saylor	WI Tim Noonan
MA Allan Dunn	PA Russ Edmunds	ON Robert Ross
MA Robert Young	PA Mark Clark	ON Mike Brooker
MI John Rieger	TN Steve Francis	ON Barry McLarnon
MI Tim Tromp	VT Steve Howe	ON Dave Pyatt
NJ Bob Antoniuk	VA George Santulli	
NY Jim Renfrew	WV David Yocis	

#### Maybe Heard

ID Frank Aden – Code at 0105?

OK Glenn Hauser – Heard few beeps of morse code, probably WFNy, but not enough to copy

#### Not Heard

CO Wayne Heinen – Tapes revealed nothing but KMAJ

NE Rick Dau – A no-show at this locality

OK Bruce Winkelman – 1430 KTBZ had IBOC off overnight, but only WGEM

PA Rene Tetro – I tried. Local WNPV 1440 Lansdale made it difficult despite driving into a null

AB Nigel Pimblett – No trace of the test

BC Nick Hall-Patch – Mostly Wetaskiwin with a talker underneath

MB Shawn Axelrod

### 1540 WKVQ Eatonton GA

#### Heard

\*\*\*\*\* NEW ZEALAND – Bryan Clark

\*\*\* SCOTLAND Paul Crankshaw – Heard in Troon. With details about reception reports and morse IDs, Sleigh Ride playing in the background. Bahamas dominant

\*\*\* UNITED KINGDOM Barry Davies – 4000 miles, morse code, heard best at 1540.06 u/ZNS1 Nassau

\*\*\* SCOTLAND Ken Baird

\* OR Pat Martin – If it wasn't for the morse code – first hour. Second hour much stronger, beautiful morse code ID followed by instrumental music

\* AB Nigel Pimblett – Despite auroral conditions and noise from KFBK. Heard zero from first test but some very weak code just after 0700 UTC on second test

\* MT Tom Kraft – Morse test tones twice using a Kenwood R-600 and KIWA loop

\* CO Robert Wien – Morse code IDs

\* CO Wayne Heinen – Nothing until morse ID & Christmas guitar music popped through

CT Mike Bugaj	MI Tim Tromp	OK Glenn Hauser
CT Bill Nollman	MN George Sherman – On	OK Richard Allen – 822
CT Ron Musco	barefoot Tecsun PL-310	miles on barefoot SRF-
DE John Cereghin	NE Rick Dau	T615, sometimes with fair
DE Peter Jernakoff	NJ Rick Shaftan	signal strength
IL Neil Kazaross	NJ Jim Chenard	OK Bruce Winkelman
IL Tom Jasinski	NY Art ????? (in Ithaca)	PA Brett Saylor
IN David Hascall	NY Jim Renfrew	PA Mark Clark
MA Robert Young	OH Michael Procop	PA Scott Levitt
MA Keith McGinnis	OH David Faulkner	PA Russ Edmunds

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SC Powell Way  
TN J.D. Stephens, Brandon  
Jordan and Jim Pogue at  
Shelby Forest State Park  
near Memphis  
TN Willis Monk  
TN Kevin Redding  
TN Doug Smith

TN Steve Francis  
VT Steve Howe  
VA George Santulli  
WV David Yocis  
WI Tim Noonan  
WI Bill Dvorak  
MB Shawn Axelrod – Code  
IDs at u/KXEL

ON Robert Ross on Sony  
SRF-T615 ULR barefoot at  
675 miles  
ON Tony Ward  
ON Dave Pyatt  
ON Barry McLarnon  
ON Greg Shoom  
ON Saul Chernos

### Not Heard

WA Pete Taylor – Wishful thinking: Too much KXPA and KFBK IBOC  
BC Nick Hall-Patch – Nothing obvious noted out on the west coast for the first 15 minutes

### 1250 WYTH Madison GA

### Heard

\* MB Shawn Axelrod – Sweep tones only, with CHSM nulled.

DC Bill Whitacre	MI Tim Tromp	TN Willis Monk
IL Neil Kazaross	PA Russ Edmunds	WV David Yocis
IL Paul Walker	PA Mark Clark	WI Bill Dvorak
IL Tom Jasinski	PA Brett Saylor	ON Barry McLarnon
MD Bill Patalon	TN Steve Francis	
MI Joe Miller	TN Jim Pogue	

### Not Heard

UNITED KINGDOM Barry Davies – Sadly the station's 1000 watts did not stray across the pond  
CA Stephen Airy – A local on 1240 the opposite direction doesn't help  
CT Ron Musco – Mess of other stations  
CT Mike Bugaj – Sports and music – nothing heard of test  
NY Jim Renfrew – Nothing so far at 0116 with Oakville ON and Ft. Wayne IN dominant  
OK Glenn Hauser – Nothing identifiable  
BC Nick Hall-Patch – Only tried second part of the test, no sign here  
ON Greg Shoom  
ON Saul Chernos – Not a hint with Oakville dominant

### Maybe Heard

IL Paul Walker – Two real brief sweep tone type sound effects; other than that, the signal is buried in the mud and can't tell if the music is from WYTH or someone else  
MO Earl Higgins – Occasional weak tones around 1:03 and 1:09 ELT, not really enough to put into the log books, so for now this will have to be the one that got away  
NE Rick Dau – Might have heard something that sounded like a code ID at 0113 ELT, but KYYS in Kansas City just too strong  
OR Pat Martin – Getting tones and sounded like weak morse code a couple of times. Once at :22, but hard to tell. I really did not expect to hear anything, but something is in there. I will try again next hour.  
PA Mark Clark – Way too much WDDZ but there seemed to be a weak morse ID in the mud at 0123, otherwise nothing

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## *The DX Time Machine*

**75 years ago** – From the April 29, 1936 *DX News* – Ted Grosvenor, Wichita KS, penned an article explaining how he improved signals of stations like 4YA-790 (Dunedin, New Zealand) by running a wire from the plate of the detector tube of an old, discarded radio to the antenna post of the main receiver, and then turning both receivers on simultaneously.

**50 years ago** – From the April 29, 1961 *DX News* – The publisher explained that each issue of *DX News* is limited to 20 pages, to keep postage expenses down and hold dues at \$4 per year. That means 15 pages of each issue are set aside for Musings, 1 page of "DX Down the Dial," and 4 pages of "International DX Digest."

**25 years ago** – From the May 7, 1986 *DX News* – Ernie Cooper came out of "retirement" to edit the "FM DX Digest."

**10 years ago** – From the May 14, 2001 *DX News* – An article by John Bryant and Bill Bowers showed how to ensure that one's coaxial lead-in doesn't turn into an antenna, thereby ruining the directivity of one's actual antenna (hint: ferrite toroids are the key!); Phil Boersma reported that half the AM stations licensed to the Muskegon, MI area were off the air with transmitter problems.

# GRAVEYARD DX TOTALS

Bill Hale, National Radio Club, Editor  
 Total Stations Heard on Each Graveyard Channel  
 Current through April 19, 2011

<u>DXer</u>	<u>DX Location</u>	<u>1230</u>	<u>1240</u>	<u>1340</u>	<u>1400</u>	<u>1450</u>	<u>1490</u>	<u>Total</u>
Norm Maguire	East Hartford, CT/Albuquerque NM	146	169	174	168	192	157	1006
Stan Morss	Boxford, MA	84	114	101	102	108	98	607
Charles Reh	Leamington, ON	65	78	91	70	80	86	470
Hank Holbrook	Chevy Chase, MD*	28/3	64/2	79/4	53/1	68/5	53/9	345/24
Frank Wheeler	Erie, PA	58	81	63	62	65	32	361
Barry McLarnon	Ottawa, ON	56	61	56	60	63	65	361
Steve Francis	Alcoa, TN	54	47	43	53	63	74	334
Jeff Falconer	Clinton, ON	53	45	56	59	58	53	324
Russ Edmunds	Combined NJ/PA	39	49	48	50	53	62	301
Ron Schiller	Various Locations, NJ	43	44	57	31	49	66	290
Carl Dabelstein	Omaha & Lincoln, NE; Overland Park, KS	45	51	54	50	55	31	286
Ernie Wesolowski	Omaha, NE	41	49	46	45	52	19	252
Shawn Axelrod	Winnipeg, MB	41	18	45	53	50	44	251
Phil Bytheway	Seattle, WA	37	38	48	42	44	34	243
Joe Kureth	Uniontown, MD	35	36	40	43	37	43	234
Karl Forth	Chicago, Illinois	33	35	31	48	51	24	222
Ron Bailey	Shelby, NC	37	36	36	34	35	39	217
Dave Whatmough	Hamilton, ON	33	27	39	31	39	41	210
Don Trelford	Toronto, ON (pre-1960)	39	22	37	34	38	33	203
John Wilkins	Wheat Ridge, CO	29	29	23	36	36	38	194
Andy Rugg	Montreal, QC	30	31	32	24	25	34	176
Karl Jeter	Suburban Atlanta, GA	20	31	20	29	29	41	170
Ron Musco	Hartford, CT	21	25	21	25	27	24	143
Craig Barnes	Wheat Ridge, CO	21	15	29	25	26	22	138
Niel Wolfish	Toronto, ON	13	26	18	22	22	35	136
John Wilkins	West Des Moines, IA	23	25	26	22	16	21	133
Dave Fox	Reading, PA	15	24	16	23	24	27	129
Esa Hänninen	Various Locations, Finland	13	18	20	23	16	35	125
Gary Atkins	Louisville, KY	21	8	29	21	18	26	123
Frank Merrill	Various Locations	16	18	17	20	26	26	123
Dave Schmidt	New Castle, DE	17	24	21	16	12	23	113
Marc DeLorenzo	Hyannis, MA	20	19	13	16	23	20	111
Tim Hall	Chula Vista, CA	20	14	22	20	19	14	109
Harry Hayes	Gouldsboro, PA	15	21	17	13	21	19	106
Bill Harms	Spokane Valley, WA	14	14	24	16	26	12	106
John Malicky	Pittsburgh, PA	7	15	16	14	24	27	103
Tim Noonan	Madison, WI	10	10	18	16	19	17	90
Nancy Johnson	Abedeen, WA	16	20	13	11	13	14	87
Jim Boehm	San Antonio, TX	12	11	14	17	17	15	86
Joe Kureth	Southern Pines, NC	13	12	13	13	17	12	80
Bill Hale	WI, IL, ID, FL, TX, NY, CA, NM	15	14	12	11	13	15	80
Niel Wolfish	Winnipeg, MB	11	2	10	22	19	15	79
Forest Osborn	- Hooker, OK	12	13	12	20	13	9	79
Wayne Heinen	Aurora, CO	14	16	8	15	21	23	77
Bruce Winkelman	Tulsa, OK	18	15	4	17	12	11	77
Ron Schiller	Avenel, NJ	14	11	13	6	10	21	75
Jim Renfrew	Rochester, NY	16	10	10	12	12	13	73
Carl Dabelstein	Phoenix-Tucson, AZ	10	12	14	10	14	11	71
Mike Hardester	Various Locations	13	10	11	10	13	13	70
Tim Noonan	Oak Creek, WI	12	9	4	12	19	14	70
Fred Nordquist	Clay, NY	13	15	6	9	15	11	69
Tim Hall	US 6/50 @ NV-UT Border, UT	14	14	12	10	10	8	67
Dave Braun	Falls Church, VA	14	16	6	11	4	11	62

Wayne Heinen Colorado Springs, CO	8	6	19	18	3	8	62
Olle Alm Stockholm, Härnösand, Abisko, Karesuando and Göteborg, Sweden	5	7	5	19	12	13	61
Christian DeHaes Chicoutimi, QC	7	16	15	6	8	9	61
Don Trelford Scarborough, ON	7	10	8	9	17	9	60
Pete Taylor Worldwide	12	8	8	19	6	5	58
Bill Harms Elkridge, MD	4	14	6	4	8	22	58
Tim Hall Teasdale, UT	10	11	8	10	8	11	57
Tim Hall Tombstone, AZ	12	10	9	10	7	9	57
Tim Hall Mammoth Lakes, CA	12	9	8	7	10	9	55
Tim Hall Yellowstone Lake Village, WY	10	9	9	9	9	9	55
Ken Onyschuk Steger, IL	9	7	7	10	12	9	54
Carl Dabelstein Minneapolis, MN	11	11	8	3	11	8	52
Dave Braun Dover, DE	4	8	8	9	10	11	50
Morris Sorensen Winnipeg, MB	4	6	8	10	14	8	50
Tim Hall Banff National Park, AB	10	7	9	7	6	8	47
Russ Edmunds Syracuse, NY	12	7	7	5	6	8	46
Richard Lauhead Vadnais Heights, MN	9	9	10	2	12	4	46
Wayne Heinen Orchard Park, NY	13	10	8	2	6	5	44
Dave Yocis South Nyack, NY	1	6	11	5	11	10	44
Tim Hall Ajo, AZ	9	8	9	6	6	6	44
Tim Hall Jasper, AB	10	7	8	7	8	4	44
Ron Schiller Couer d'Alene, ID	5	6	13	4	4	11	43
Paul Mount Teaneck, NJ	5	8	8	8	8	5	42
Morris Sorensen Scarborough, ON	2	12	3	10	6	9	42
Denis Picard Trois-Rivières-Ouest, QC	7	11	6	6	5	6	41
Tim Hall Bandon, OR	7	4	6	9	5	9	40
Tim Hall Monterey-Carmel, CA	10	6	8	5	6	4	39
Don Trelford Runaway Bay, Jamaica	4	6	6	5	10	7	38
Tim Hall Chester, CA	5	8	6	5	7	7	38
Tim Hall The Sea Ranch, CA	11	6	6	3	6	6	38
Tim Hall Tombstone, AZ	8	7	6	6	4	6	37
Tim Hall Crater Lake, OR	10	7	4	6	5	5	37
Stephen Ponder Bossier City, LA	6	5	6	6	7	7	35
J.W. Bay, Jr. Drexel Hill, PA	35	0	0	0	0	0	35
Tim Hall Radium Hot Springs, BC	7	4	7	6	5	5	34
Eric McIntosh Invercargill, NZ	0	3	1	15	7	7	33
George Santulli Cranford, MA	0	0	33	0	0	0	33
Tim Hall Crescent City, CA	4	1	6	9	6	6	32
Morris Sorensen Leaf Rapids and God's Narrows, MB	5	6	5	7	4	4	31
Tim Hall Burney, CA	4	5	4	6	6	5	30
Tim Hall Lone Pine, CA	7	6	4	4	4	5	30
Tim Hall Houston, TX	1	2	8	5	6	8	30
Tim Hall Moab, UT	5	4	5	6	5	5	30
Tim Hall Springdale, UT	8	5	5	4	4	4	30
Tim Hall Grant Village, WY	5	5	5	3	5	7	30
Morris Sorensen Port Carling, ON	2	5	5	6	4	6	29
Morris Sorensen Milton, ON	5	3	3	7	3	7	28
Russ Edmunds Jonesport, ME	4	5	1	6	5	5	26
John Vervoort Brooklyn, NY	6	4	2	5	5	2	24
Paul Mount Nelsonville, OH	4	4	2	3	3	5	21
Paul Swearingen Moran, KS	5	3	2	2	2	5	19
Morris Sorensen Kemptville, ON	2	4	2	2	5	3	18
John Tudenham Joplin, MO	7	2	2	4	1	1	17
David B. Jones Springfield, TN	3	5	3	2	2	2	17
Pete Taylor Tacoma, WA	2	1	1	4	3	4	15
Morris Sorensen Amaranth, MB	3	5	3	1	1	2	15
Doug Smith Madison, WI	2	1	3	2	2	0	10
Perry Crabill Winchester, VA	2	2	1	1	2	2	10
Shawn Axelrod Edmonton, AB	1	0	1	1	1	1	5
Bert New - Watkinsville, GA	4	0	0	1	0	0	5
Dale Park Irvine, CA	1	1	1	1	1	0	4

Dale Park	Various Locations, HI	0	1	0	1	1	0	29
Shawn Axelrod	Swan River, MB	0	2	0	0	0	0	3

\* Totals are for Before/After 1960

All Graveyard records are on-line at: <http://http://www.nrcdxas.org/>  
and select Graveyard DX under Station Info

# NRC Contests

**Wayne Heinen** [amradiolog@nrcdxas.org](mailto:amradiolog@nrcdxas.org)  
4131 Andes Way  
Aurora, CO 80013-3831

Remember that the contest runs through 11:59 PM ELT May 31, 2011 and the contestants with the most cumulative points will receive a one year extension of their National Radio Club publication. We're getting closer to the end. I still haven't heard from anyone with either contest ideas or anyone that might be interested in assisting with conducting the contests for the 2011-2012 season! Let's hear from YOU this summer!

## Ultra-Light Cumulative Points Contest

Contester	Location	Loggings	Points
Ron Bailey	Marion, NC	441	986
Russell Curry	Eugene, OR	213	511
J Paul Kavan	Tampa, FL	27	60

## Unlimited Cumulative Points Contest

Contester	Location	Loggings	Points
Wayne Heinen*	Aurora, CO	328	804
David Yocis*	Harpers Ferry, WV	313	657
Richard Lauhead	St Paul, MN	304	647
Gary Houdek	Munden, KS	122	233
Mike Clancy	Jersey City, NJ	107	203
Steve Sprague	Coffeyville, KS	94	192
David B Jones	Nashville, TN	35	73
John R Malicky	Pittsburgh, PA	23	35
Dale Park	Honolulu, HI	10	18

## Ultra-Light Cumulative Mileage Contest

Contester	Location	Loggings	Total Miles
Ron Bailey	Marion, NC	441	133,046
Russell Curry	Eugene, OR	213	99,460
J Paul Kavan	Tampa, FL	27	11,478

## Unlimited Cumulative Mileage Contest

Contester	Location	Loggings	Total Miles
Wayne Heinen*	Aurora, CO	328	183,503
Richard Lauhead	St Paul, MN	304	135,740
David Yocis*	Harpers Ferry, WV	313	95,328
Steve Sprague	Coffeyville, KS	94	28,111
Dale Park	Honolulu, HI	10	25,692
David B Jones	Nashville, TN	35	11,854
John R Malicky	Pittsburgh, PA	23	8,369

\* - Ineligible for prizes.



## Can AM radio survive by serving niche markets? By Aaron Barnhart – The Kansas City Star

Four hours before KMBZ-AM began simulcasting on 98.1 FM, Chris Merrill spent a commercial break scrolling through his Facebook page to see if anyone else hated his show. “Glenn Beck fans,” Merrill said. “Only a couple of them today.” Earlier in March, the KMBZ fill-in host was given the 9 a.m. to 11 a.m. time slot, replacing the syndicated “Glenn Beck Show,” which was kicked to late nights. Beck Nation responded by calling the new host a “buffoon,” “insulting,” and “sick,” among the descriptives we can print. By last week, however, they’d moved on. Now KMBZ was gearing up to welcome tens of thousands of incoming listeners on March 30, the sales people and listen-at-work types who preferred listening to FM. “We’re going to have access to an all-new audience,” said Merrill, a father of three school-age kids. “Most of the Gen-X and millennials aren’t used to AM. That’s Dad’s station.”

If you, or your dad, has a fond memory of radio, it probably involves AM. Tanya Palmer, a local media buyer, grew up in Pittsburgh. She remembers lying in her room at night, listening to stations both near and far: the news on KDKA, Top 40 on WLS, Cardinals games on KMOX. “I loved radio,” Palmer said. “Hearing those stations like WGN and WLS through all the static was so exciting because they were in places like Chicago.” We tend to forget this, but for two generations of listeners the AM radio was a discovery box. It was where young people went to hear new music, where their folks went to learn what was happening in the world.

From the early 1950s, when television ended the Golden Age of Radio, until the mid-1980s, AM thrived in its role as newsbreaker-tastemaker. Then satellites came along. They helped TV stations report the news, and they carried a cable channel that did nothing but news. So began the long, unabated decline of AM radio. The music industry and FM broadcasters redefined what was an acceptable song length. Car stereo makers improved the FM reception on radios, while substituting cheaper AM tuners. Just when it seemed AM signals were fading into the night, however, a former KMBZ personality named Rush Limbaugh struck gold with his strident, highly entertaining political talk show. It entered national syndication in 1988 and immediately found an audience on hundreds of stations. AM was saved.

Two decades have passed, and as the audience for talk has aged, a formidable array of threats to AM’s future have emerged. The list of in-car audio choices grows longer every year and is on its way to infinity. With Wi-Fi, drivers will be able to tune in any streaming Internet station in the world, or even their own music cloud controlled by smartphone. Many mobile devices are adding FM tuners. An industry poll last year found that it was the most-requested feature on the iPhone. But AM? Out of the question — too bulky to fit into a mobile device. Then there’s the growing threat to AM’s analog signal from electricity emitted by those same mobile devices. Wireless equipment is supposed to observe power limits set by the Federal Communications Commission, but experts say AM just wasn’t meant to handle an atmosphere filled with competing signals. Michael Carter, whose family has run KPRT-AM (1590) since 1950, said his station powers down to just 47 watts after sunset so as not to interfere with a station 600 miles away in Fort Wayne, Indiana. “My grandpa used to tell me you can pick up an AM station off a spoon,” Carter said. “I’ve yet to be able to do that.”

Merrill spent his last hour as an AM talk show host ginning up a story that had broken the day before in Rolling Stone. The magazine had published photos of a “kill team” of U.S. soldiers standing over bodies of Afghan civilians they’d killed. Later that day, Glenn Beck would respond with one of his signature conspiracy theories, accusing Rolling Stone of holding the story until it could do the most damage to U.S. troops. But Merrill took a less hostile tack. “When do we censor the press?” he asked KMBZ listeners. “Are American lives at risk?” Over the next hour, listeners called in to take both sides, and Merrill played devil’s advocate with all of them. A self-described classical libertarian, he’s hardly uncertain of his own views. But he and his boss, Neil Larrimore, have been discussing how to reach the next generation of listeners. And they’ve decided that simply preaching the GOP talking points won’t do anymore. “Younger listeners are more in self-discovery mode,” Merrill said. “They try to think through (issues) more. So on the show I let people think through on their own.” Everyone at KMBZ, of course, pays homage to El Rushbo, whose current eight-year, \$400 million syndication deal may be radio’s last mega-contract. But finding a good lead-in program for Limbaugh has been an eternal challenge at KMBZ. The host of “Voice of Merrill” is clearly positioning himself to succeed with a younger audience on FM. “If we do this right,” Merrill said, “I hope to have a tone that is less grave and more hopeful.” One outcome is certain: KMBZ, which has slipped from Kansas City’s five most-listened-to stations in 2009 to well out of the top 10, will get back into the ratings game. News-talk stations from Portland, Ore., to Washington, D.C., have moved partly or entirely to FM and seen big jumps in listenership and revenue. In fact, Washington’s WTOP-FM was the country’s highest revenue-generating station in

2010. But there will likely be a side effect to the KMBZ surge: Kansas City's most-listened-to AM broadcaster could soon become a station with a majority FM listenership. Common sense and data from other cities suggest that most listeners, given the improved reception and clarity of FM, will reset their presets.

### **And where does that leave AM?**

Scanning the amplitude modulation band, it is easy to conclude that radio's senior circuit has devolved into a staticky mess of weak signals aimed at micro-sized constituencies. Spanish-language stations. Religious broadcasters. Timeshares. And way to the right of the dial, KXTR (1660), the classical station that won't die. But there is another way to look at AM's future, and it is seen through the other three "heritage signals" that chose not to follow KMBZ to FM-land. For a generation or longer, the AM frequencies of 610, 710 and 810 ruled the Kansas City scene. But as it became clear that radio was changing, management refashioned these broadcasters into narrowcasters, filled with specialty content and dependent not so much on quarterly ratings as on their ability to deliver devoted listeners to longtime advertisers. "You have to be a destination for people," said Chad Boeger, general manager of Union Broadcasting, which owns WHB (810) and KCTE (1510).

Two years ago, Arbitron, the ratings company, hiked its prices. Union, owned locally by Boeger and other partners, said no thanks, and the station has gone ratings-free since. It has other metrics, like the success of its *810 the Zone* sports bars and its new mobile app, which it says is regularly used by an estimated 22,000 listeners. "People want to know what's going on in Kansas City (sports), and we feel we do a phenomenal job of that," Boeger said. Likewise, Donna Baker, who oversees the Kansas City market for Cumulus, considers her news-talker, KCMO-AM (710), a destination and has no plans to gut one of her popular FM stations to simulcast it. "You can hear Tom Petty on a variety of stations in the marketplace, but there's only one place you can get Dave Ramsey," Baker said. Ramsey, the personal-finance guru whose show airs middays on KCMO-AM, recently packed 10,000 paying customers into Kemper Arena for a seminar.

But how much longer can this go on? As Jerry Del Colliano, a longtime radio industry observer and new-media adviser to broadcasters, put it recently: "If you're Generation Y, you have an iPhone and an iPod and you want an iPad. If you're older, really older, you listen to radio." Those of us with fond memories of radio will still tune in, for a while anyhow. But how much longer until even WHB, with its mighty signal, throws in the towel and starts looking for an FM tower to buy?

America's oldest black-owned radio company is housed in a nondescript, two-story building in an aging office park off Red Bridge Road. In a tiny studio that looks more like it would belong to a college radio station, Freddie Bell hosts the weekday morning show at *Gospel 1590*. "Have yourself a power-packed weekend and a great Lord's Day celebration!" Bell said to one caller on the air. "Say hello to sister Josephine." Bell was in the middle of the station's daily *Scripture shower*, where listeners read Bible verses that are in their hearts that morning. He recognizes many of their voices instantly. "No caller ID," said Bell, pointing to the ancient studio phone. Down the hall is Carter Broadcast Group's better-known urban station, KPRS-FM (*Hot 103 Jamz*). Bell, who has been with Carter since 1976, used to work there, but he prefers the gospel format and the intimacy of a small but faithful audience. "It's like church without the walls," Bell said. Michael Carter became the stations' second-generation owner after his grandfather, Andrew "Skip" Carter, groomed him for the job. He said that while KPRS' fortunes may wax and wane, KPRT has delivered a solid, steady profit year after year over four decades as a gospel station. "The preachers like it, the listeners like it, so we just continue to bring them what they like," Carter said. KPRT's ratings are all but nonexistent — and all but irrelevant to most people who broadcast on AM these days. There are other ways to measure impact, like the 250 people who show up at Gospel 1590's pot-luck picnics. Or the Christian alternative healer who has paid for a 30-minute program on Bell's morning show for six years. Every week, Richard Snow comes into the studio to help listeners deal with "the pain you can't explain." Young, fit and Caucasian, Snow is a chiropractor and acupuncturist based in Johnson County who began to buy time on KPRT after what he calls a providential encounter with a listener. During the segment Snow offers advice on natural remedies for aches, pains and allergies. Every now and then, he gives out his phone number. "I see it as my ministry to educate people about health care," Snow said. "And this place just feels like home." As long as there are people like Snow willing to pay to reach listeners like sister Josephine, there will be AM radio. "AM is like the vinyl record now," Michael Carter said. "Rarely do you run into people with vinyl records, but when you hear them, they're kinda cool. And that's where music started, with vinyl."

(via Bill Hale)

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