

DX News

Serving DXers since 1933



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WNAR PA 1620 daily 0300-0304



E-DX NEWS Magazine

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From The Chairman of the Board of Directors
... Hi all; elsewhere in this issue you'll find information on the National Radio Club's newest venture, e-DXN. As we move forward I want to assure everyone reading this that the National Radio Club is in no way considering altering *DX News* from the printed media that all of us have subscribed to. All of us, from Kermit Geary who has been reading it since its inception and others whose names may be listed on the front page who are reading their first copy of *DX News* since subscribing. Look forward to each issue with its DX and BCB features. The Board and the Publishers of the National Radio Club's *DX News* and DX Audio Service are constantly looking at new ideas and new concepts that can be added to the Club's ability to serve its members. We welcome the input of those who wish to suggest ways that we can improve the club.

Forum	
	From the N.R.C. Board Notices from the National Radio Club's Board of Directors. Moderators: John P. Sweeney, Wayne Heinen
	FCC & CRTC Notices Public notices from the FCC and CRTC. Moderator: Fred Kuehler
	Technical Articles Articles of technical interest, kit building, and construction projects. Moderator: Paul Szwed/21242
	Non-Technical Articles News stories, non-technical articles, and commentary. Moderator: Paul Szwed/21242
	The QSO Room Post your logs, tell a story, or pass on information, but keep it radio-related, please. And - be nice to each other. Flames, insults, bad language, etc. will disappear, with violators of posted NRC policy losing access to e-DXN. Moderator: Paul Szwed/21242
	The QRM Room

Lately, the Board has been accused of being resistive to suggestions of the members; that is very far from the truth. We are resistive to those who want to dictate to the Board, and hence the Club, changes that may not be feasible, financially viable, or desirable to the Club as a whole. Some have proposed some ideas that are awaiting a volunteer; they had the idea but neither the time nor energy to put the idea into motion.

I would like to encourage any member that may have something that they would like us to consider to contact the Board member or Publisher of your choice or myself, Wayne Heinen, and let us know your concern. When something is proposed, it also takes time to send it around and to consult with Paul about *DX News* and Fred about DX Audio Service. There is a process that is involved in every decision made, and foremost the National Radio Club must continue to provide the services to the subscribers of *DX News* and the DX Audio Service. If you are interested in volunteering to help, we can use those who may wish to contribute to DXN or DXAS, help with our web site or
(Continued on page thirty-two)

DX Time Machine

From the pages of DX News:

50 years ago ... from the September 3, 1955 DXN: Ernie Cooper, Brooklyn, NY reported that Hurricane Diane had all the North Carolina stations on the air on the morning of 8/17; he logged WHVH-1450 on the Civil Defense Network, with music from each station's studio and network bulletins every half-hour; the key station was WBSC.

25 years ago ... from the September 8, 1980 DXN: Bill Bergadano took over GYDXA, and Dave Arbogast was appointed editor of the Sports Network column.

10 years ago ... from the September 18, 1995 DXN: An article on KTOZ-1060 reported that it had fended off a U. S. Labor Department investigation to stay on the air and continue using volunteers as disk jockeys and clerical workers.



AM Switch

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

CALL LETTER CHANGES

Old Call		New Call
540	WJQI TN Clarksville	WKFN
540	NEW WY Pine Bluffs	KJJL
790	WXXA KY Louisville	WKRD
870	KAIM HI Honolulu	KHNR
890	NEW CO Fountain	KJME
910	WKEQ KY Burnside	WSFW [was WLLK for 9 days]
970	WRKN MS Brandon	WZQK
970	WOXL NC Canton	WLZR
980	WAPF MS McComb	WAKK
1140	WAKK MS McComb	WAPF
1150	KNRC CO Englewood	KNRV
1160	KNEI IA Waukon	KIHP
1340	NEW NM Taos	KVOT ["Voice of Taos?"]
1370	WKFN KY Fort Campbell	WJQI
1380	WYNK LA Baton Rouge	WPYR
1470	KITO OK Vinita	KGND
1550	WBCV TN Bristol	WIGN
1580	WANB PA Waynesburg	WXXP

CPs ON THE AIR

810	WDMP WI Dodgeville - CP for U1 250/10 is on the air.
820	KUTR UT Taylorsville - Program Test Authority (PTA) granted for U8 50000/2500 CH 25000 [facility update from Issue 27].
1070	KVKK MN Verndale - PTA granted for U2 10000/5000 (new station has been reported ON with C&W by John Sampson).
1310	WGSP NC Charlotte - CP for U2 5000/240 from adjusted coordinates of N35-15-24 W80-51-52 is on the air.
1430	WOWW TN Germantown - CP to consolidate their day and night operations at the former 6-tower night site at N35-12-50 W89-47-46 is on the air. WOWW remains U2 25000/25000.
1510	KROB TX Robstown - CP to move to a new 170' tower at N26-46-39 W97-37-55 is on the air. KROB remains D1 500/0.
1560	WBYS IL Canton - CP for U1 250/18, adding night service, is on the air.

GRANTS FOR NEW STATIONS

880	NEW FL Sweetwater - CP granted for U4 4000/1500.
1230	NEW GA Hiawassee - CP granted for U1 1000/1000.
1340	KVOT NM Taos - CP granted for U1 1000/1000.
1340	NEW OR Bend - CP granted for U1 250/250.
1370	NEW WA Newport - CP granted for U2 5000/350. Station has a pending amending to change frequencies to 1400 kHz with U1 250/250.
1450	NEW NV Tonopah - CP granted for U1 1000/250.
1490	NEW SC Cameron - CP granted for U1 1000/1000.
1550	NEW FL Bunnell - CP granted for U2 9300/200.

GRANTS TO EXISTING FACILITIES

550	WDEV VT Waterbury - Coordinate adjustment to N44-21-17 W72-45-07.
620	WTRP GA La Grange - CP granted to increase day power. When operational, WTRP will be U1 2500/127.
830	KMUL TX Farwell - CP granted to move here from 1380 with U1 1100/10. A later application for U8 50000/10 CH 16000 is still pending.

890	KQLX ND Lisbon - CP granted for D1 1800/0.
970	WTBF AL Troy - CP granted to replace one of its towers with a slightly shorter one and dismantle the other while reducing nighttime power. When built WTBF will become U1 5000/45. New coordinates would be N31-50-07 W85-55-58. [A quick turnaround on this one!]
1010	KXEN MO St. Louis - CP granted to change the city-of-license (CoL) to St. Louis, dropping the "-Festus" designation.
1010	KCPW UT Tooele - CP granted for U8 50000/194 CH 42000.
1060	KRCN CO Longmont - CP granted to increase daytime power from a new tower at N40-16-51 W104-56-25. When operational, KRCN will be U1 30000/111.
1150	KCKY AZ Apache Junction - CP granted to change CoL from Coolidge while decreasing the nighttime power to be U4 5000/185. KCKY is now licensed as U4 5000/1000.
1150	KWKY IA Des Moines - CP granted to increase day power and make adjustments to the day pattern. When built, KWKY will be U4 2500/1000.
1150	KSAL KS Salina - Coordinate adjustment to N38-53-03 W97-31-02.
1230	WAUD AL Auburn - Coordinate adjustment to N32-37-40 W85-27-37.
1260	WWVT VA Christiansburg - CP granted to increase day power and add night service as U1 5000/25.
1320	WJAS PA Pittsburgh - CP granted to move the day transmitter site to N40-28-46 W79-54-12 (two new towers) and retain the night site where it is. A second filing (see Applications) covers the night facilities. This CP covers an increase in day power to become U4 7000/5000 from two sites.
1390	WLUA SC Belton - CP granted to add night service as U1 1000/17.
1410	KWYO WY Sheridan - CP granted to relocate to a new 240' tower and reduce nighttime power. When operational, KWYO will become U1 5000/350 at N44-47-54 W106-55-51.
1420	KGIM SD Aberdeen - Coordinate adjustment to N45-29-12 W98-29-50. KGIM remains U1 1000/232.
1430	WATB GA Decatur - CP granted to add one tower to their standing three in order to change their frequency from 1420 kHz. When operational, WATB will be U5 50000/160 at the adjusted coordinates of N33-47-13 W84-14-53.
1570	WLBQ KY Morgantown - Coordinate adjustment to N37-13-09 W86-41-21. WLBQ remains U1 1000/150.
1570	KAKK MN Walker - CP granted to increase day power from a new top-loaded tower at N47-04-44 W94-35-25. When built, KAKK will become U1 9500/250. [Another quick turnaround!!]
1600	WHJB PA Bedford - CP granted to reduce day and night power levels to be U1 2700/18 from the 277' tower of commonly-owned WBFD-1310 at N40-02-35 W78-30-13.
GRANTS TO PENDING FACILITIES	
1690	WWAA GA Adel - WWAA has been looking for a new transmitter site, and now has been granted a CP to operate from a 111 meter tower at N33-48-42 W84-21-37. The station will continue to be U1 10000/1000.
APPLICATIONS FROM EXISTING FACILITIES	
550	WSVA VA Harrisonburg - Applies to correct coordinates to N38-27-04 W78-54-29 (almost a mile difference) and to increase the augmentation of its signal toward 220 degrees.
630	WUNO PR San Juan - Applies to move to a new two-tower site at N18-25-59 W66-16-22. WUNO would remain U3 5000/5000.
790	WPIC PA Sharon - Applies to increase day and night power levels to become U1 1300/58.
910	WNDC LA Baton Rouge - Applies to increase day power and add night service as U4 1200/51 from a new from a new 2-tower site. [Added info for item in Issue 27]
970	WAMD MD Aberdeen - Applies to build a new two tower array for their daytime operation (night operation will continue at the present site) and decrease their day power to become U4 490/500.
970	WWDJ NJ Hackensack - [See last issue for lots more info on this proposed change for

- WWDJ - Ed.] Currently licensed as U4 5000/5000. WWDJ has applied for U4 6000/3800. This latest amendment now requests U4 10000/3800.
- 1010 WNTK NH **Newport** - Applies to add one tower to their single stick in order to increase nighttime power. If granted and built, WNTK will become U2 10000/2000 CH 10000.
- 1150 WAVO SC **Rock Hill** - Applies to raise daytime power to become U1 5000/59.
- 1320 WILS MI **Lansing** - Applies to increase day and night power levels from a new 4-tower array at N42-37-19 W84-38-38. If approved, WILS will be U4 25000/1900.
- 1320 WJAS PA **Pittsburgh** - Applies to move the night facility to that of the new site (see CPs Granted above for related activity) and utilize the same two newly constructed towers. If approved, WJAS will eventually be U4 7000/3300.
- 1360 KLSD CA **San Diego** - Applies to increase day and night power levels to be U4 50000/50000 from the 6-tower site of KSDO-1130 at N32-51-04 W116-57-51. The peculiar part of this move is that the proposed power increase will result in little overall coverage improvement for KLSD in populated areas, and some coverage loss, according to the coverage contours as filed with the FCC. Ordinarily, a dramatic transmitter move like this one would be expected to pay large, handsome dividends. The only argument heard in favor of the move is that building penetration will improve because of increased power density, but any studies along those lines have not been presented.
- 1370 KGEN CA **Tulare** - Licensed for U1 1000/136, KGEN applied to change their CoL to Sanger, and and increase their power to be U4 5000/250. This amendment still requests the change in CoL, but now they want to move the transmitter site to that of KGEN-FM at N36-12-16 W119-33-53 and decrease power levels to U1 710/72.
- 1540 WJJT TN **Jellico** - Applies to add nighttime operation as U1 1000/1 CH 500 from a new 184' tower at N36-34-59 W84-08-10. WJJT has been operating under an STA using a horizontal antenna since December 28, 2003 when a fire destroyed their entire facility. This action would restore their operation as before the fire, plus add nighttime service.
- 1590 WATX TN **Algood** - Applies to move to 1600 kHz and decrease both day and night power levels from a new 155' tower. If granted, WATX will become U1 800/34 at N36-11-19 W85-28-23.
- 1590 WIXX WI **New Richmond** - Applies to add night service as U1 5000/95.

APPLICATIONS FOR NEW STATIONS

- 750 NEW MN **Duluth** - Applies for U7 7000/500 CH 5000.
- 890 NEW TX **Mabank** - Applies for U4 670/250.
- 1200 NEW NY **Highland** - Applies for U4 4700/1000.
- 1300 NEW MN **Bemidji** - Applies for U2 2500/600.
- 1340 NEW MT **Huntley** - Applies for U1 250/250.
- 1340 NEW MT **Kalispell** - Applies for U1 1000/730.
- 1340 NEW OR **Bend** - Applies for U1 250/250.
- 1400 NEW CA **Eureka** - Applies for U1 1000/1000.
- 1450 NEW FL **Lake City** - Applies for U1 1000/1000.
- 1450 NEW NV **Hawthorne** - Applies for U1 1000/1000.
- 1450 NEW NM **Ruidoso** - Applies for U1 1000/1000.
- 1490 NEW MI **Houghton** - Applies for U1 1000/1000.
- 1490 NEW MI **Ironwood** - Applies for U1 250/250.
- 1490 NEW UT **Richfield** - Applies for U1 1000/1000.
- 1530 NEW GU **Agana** - Applies for U1 250/250.
- 1590 NEW PA **Kearsarge** - Applies for U4 500/900.

AMENDMENTS TO CONSTRUCTION PERMITS SUBMITTED

- 720 WQTH NH **Hanover** - New station, not yet on the air, has a CP for U4 50000/500. This amendment requests to change the CoL to Claremont, New Hampshire with U4 50000/2500 from a new, 6-tower site.
- 950 WPEN PA **Philadelphia** - Licensed for U2 5000/5000, WPEN has a CP to increase nighttime power to 21000 Watts from WWDB-860's 4-tower site. They have encountered problems with the symmetry of one of the lobes due to nearby power lines and have resubmitted their application with augmentations to

- 1470 KNFL UT **Tremonton** - New station, not yet on the air, has a CP for U4 10000/1000. This amendment requests U4 10000/880 from two slightly taller towers, suggesting they haven't started building their site yet.

AMENDMENTS TO APPLICATIONS SUBMITTED

- 770 WKFB PA **Jeannette** - Licensed for D1 750/0, WKFB has an application pending to change the CoL to North Huntingdon, Pennsylvania. This amendment requests CH operation with 750 Watts be added. [corrected text from last issue]
- 810 NEW AK **Knik-Fairview** - Original Auction 84 application was for U4 50000/20000. This amendment requests U4 45000/45000 on 800 kHz.
- 1240 WALO PR **Humacao** - WALO applied to move their transmitter site to a new 180' tower. The FCC questioned if the relocation of the transmitter would cause interference to the use of the Radio Astronomy bands utilized by the Arecibo Observatory. WALO has received a letter from the observatory stating they did not believe the new facility would affect their operation, which has been forwarded to the FCC. ET, phone home.
- 1400 KLCK WA **Goldendale** - Station applied to correct their coordinates, but the application stated 250 Watts at night instead of the intended 1000. They have now resubmitted the application with the corrected U1 1000/1000 facilities.
- 1490 NEW CT **Uncasville** - The auction 84 application for U1 250/250 and later amended to U1 195/196. This amendment requests U4 1000/250 on 1510 kHz.
- 1530 WMBE WI **Chilton** - Licensed for D1 250/0, WMBE has a pending application to change to 840 kHz with D3 20000/0. This amendment scales the proposed power back to be D3 4500/0.
- 1540 WSIV NY **East Syracuse** - Licensed for U1 1000/57 from two transmitter sites, WSIV applied to move the day site to the shorter of the two towers formerly used by WOLF-1490 when operating daytime (WOLF has since discontinued DA operation leaving the shorter tower unused). WSIV also applied to add CH operation with 1000 Watts. This amendment deletes the CH request as field tests determined day and CH operation would be identical.

APPLICATIONS REINSTATED

- 750 NEW NY **Lansing** - New station application for U4 2500/720.
- 990 WGML GA **Hinesville** - Renewal Application
- 1430 WFHK AL **Pell City** - Renewal Application

PETITIONS FOR RECONSIDERATION FOR APPLICATIONS

- 770 NEW FL **Nassau Village-Ratliff** - This unbuilt station had a CP for U4 50000/410 and later filed an amendment to change the CoL to Baldwin, Florida. The amendment was dismissed, which this action requests to overturn.
- 1270 WYXC GA **Cartersville** - Renewal request.
- 1540 WRSM AL **Sumiton** - Renewal request.

APPLICATIONS DISMISSED

- 640 NEW IN **Terre Haute** - Application for "Interim Operation".
- 1150 WJRD AL **Tuscaloosa** - Application was to change CoL to Northport.
- 1190 KXXM CA **Anaheim** - Application to change CoL to Paramount, California with U4 25000/1000.
- 1230 NEW IN **Terre Haute** - Application for "Interim Operation".
- 1230 WBME ME **Belfast** - Renewal application. [There once was a WBME here, but has disappeared over the years. Why? We don't know. Recently, the former owner wanted to resurrect the station, but the FCC says 'no'. - Ed.]
- 1450 WOL DC **Washington** - WOL had applied to move to the WYCB-1340 tower with U1 390/390, which was dismissed. They resubmitted their package and requested a reinstatement of the application. That, too, now has been dismissed.

Are you expiring?

We hope not! To avoid expiration, mail your remittance to P. O. Box 5711 - Topeka, KS 66605-0711 early. Allow at least three weeks after mailing your check or money order for new renewal data to appear on your mailing label.

LICENSE CANCELLATIONS/CALL LETTERS DELETED

1060 KOFY TX Gilmer [There's a hot set of call letters to grab!]

UPDATES

1150 WHBY WI Kimberly - Last issue we reported that WHBY had been reported to either be testing, or on their CP for U4 20000/25000 from their new 6-tower site. Scott Fybush reports he was in the area recently and it seems they are having problems getting the new day pattern tuned. So, as they keep working on this, area listeners may hear some tuning and testing from WHBY.

LICENSE RENEWALS GRANTED

590 KFNS IL Wood River	1230 WFXN IL Moline	1450 KCTI TX Gonzales
590 KLBK TX Austin	1230 KERV TX Kerrville	1450 WMVA VA Martinsville
910 WAKO IL Lawrenceville	1240 WMMB FL Melbourne	1550 KCOM TX Comanche
920 WGOL AL Russellville	1270 WQKR TN Portland	1580 WDAB SC Travelers Rest
940 WCND KY Shelbyville	1280 WIPC FL Lake Wales	1580 KQRL TX Waco
950 KYNG TX D e n i s o n - Sherman	1320 WMSR TN Manchester	1620 WTAW TX College Station
	1330 KINE TX Kingsville	1630 KKGW TX Fort Worth
970 KHVN TX Fort Worth	1340 KOLE TX Port Arthur	1650 KHRO TX El Paso
1120 WGJO GA Gordon	1350 WMMV FL Cocoa	1660 KRZI TX Waco
1150 KZNE TX College Station	1400 KEBE TX Jacksonville	1700 KKLF TX Sherman
1150 KSVE TX El Paso	1450 WFMB IL Springfield	

NORTH OF THE 49th

□ The CBC has applied to the CRTC for a drop-in FM station on 90.5 MHz with 2800 Watts to rebroadcast CKSB-1050, and another relay on 89.3 MHz also with 2800 Watts in Winnipeg rebroadcasting CBW-990. Wait . . . here's another one: this is proposed for 99.1 MHz with 1100 Watts in Calgary, Alberta rebroadcasting CBR-1010. The CBC, in all cases, cites urban growth, the construction of high-rise concrete and steel buildings, increased electrical noise from overhead wires, large and small appliances and portable radio transmitters impeding the ability of its current AM transmitters delivery of reliable and high quality signals. Seems as if we had a similar announcement last issue.

□ The CRTC has approved a new AM station at Tuktoyaktuk, Northwest Territories on 1150 kHz with U1 40/40. The new station will rebroadcast the programming of CHAK-860 Inuvik, Northwest Territories.

□ CKOT-1510 Tillonsburg, Ontario has been granted a move to the FM band, but only after they successfully determine which frequency to occupy. They had asked for 104.7 MHz (as had five other parties), but the CRTC awarded that frequency to one of the other applicants which requested Woodstock as the city of license. So, once CKOT can come up with a frequency on the ever-crowding band in the area, they will be able to build their new facility.

□ The CRTC has approved the application to cancel the licence for CFOS-560 Owen Sound, Ontario since the implementation of its new station CFPS-FM Port Elgin has taken to the airwaves.

HEAR AND THAR

□ The FCC has announced special procedures to help radio and television stations resume and maintain broadcast operations to the residents of the areas impacted by Hurricane Katrina. For additional information, visit the FCC's web site and specifically: http://hraunfoss.fcc.gov/edocs_public/attachmatch/DA-05-2393A1.txt.

□ Speaking of Katrina, *M Street Journal* has been tracking which stations have notified the FCC which are silent because of Katrina. The AM stations announced so far are: WVOG-600, WTIX-690, KKNO-750, WSHO-800, WYLD-940, WLNO-1060, WBOK-1230, WODT-1280, and WBYU-1450 in Louisiana, as well as WXBD-1490 and WTNI-1640 in Biloxi. It's also been reported that WEEZ-890 Laurel, Mississippi lost its tower and is off the air. WWL-870 remains on, and WSMB-1350 is on parallel them when they can get natural gas to run its generator, which has been sporadic. KGLA-1540 is on 24 hours, 1000 watts U1, with emergency information in Spanish. WASO-730 Covington is back on the air with emergency announcements, having been seized by the parish government there. There's been no report to the FCC from WGSO-990, but it hasn't been heard by anyone there. An additional note from the FCC today (9 September) says they will be 'open for business' during the weekends to accommodate Katrina-affected broadcasters.

□ Gary Houdek of Munden, Kansas writes to correct my placement of KFTI-1070 from Topeka to Wichita, Kansas, which was listed in the license renewal section of Issue 29. Hey! I just repeat what the FCC sends to me. If they think KFTI is in Topeka, who are we to say that isn't fact, hi. (I'd trust

Gary long before I'd trust the FCC, hi -pls.)

□ OFF the air (all non-Katrina-related activity): KTIB-640 Thibodaux, Louisiana, KBRV-790 Soda Springs, Idaho; WWON-930 Waynesboro, Tennessee, WQLS-1210 Ozark, Alabama, WOWZ-1280 Appomattox, Virginia, KOLE-1340 Port Arthur, Texas, KUOL-1470 San Marcos, Texas, WEZC-1480 Neon, Kentucky, WRSM-1540 Sumiton, Alabama. Reportedly back on the air: KXLX-700 Airway Heights, Washington with a sports format; KICT-850 Nome, Alaska with a Southern gospel format; WUUS-980 Rossville, Georgia // WOGT-FM with oldies and "GT 98" slogans; KNUV-1190 Tolleson, Arizona with a Spanish News/Talk format and "La Bueno Onda 1190" slogans; WLUA-1390 Belton, South Carolina; and KEWL-1400 Texarkana, Texas // KEWL-FM with oldies.

□ According to the FCC, as of June 1, 2005 there are 4759 AM, 6213 commercial FM, and 2585 educational FM stations licensed in the U.S. for a total of 13,557.

□ Patrick Griffith of suburban Denver writes: "I cruised by the KLZ transmitter site again today [August 21 - Ed.]. Work is progressing on the new KLTT-810 day facility at that location - but slowly. I mentioned a couple weeks ago that the new tower bases were in place. Today there were many sections of new tower laying in the antenna field near the base supports ready to go up." And on August 29th Patrick writes: "The four towers for the new KLDC 810 daytime site went up this week."

□ Fines, but not dandy:(1) WLEE-990 Richmond, Virginia has been fined \$6,000 for what the FCC describes as 'willful and repeated violations involving WLEE's failure to enclose its tower within an effective locked fence and for exceeding its nighttime power limit'. (2) The FCC has fined KRSC-1400 Othello, Washington \$8,000 for "willful and repeated violation of Section 11.35 of the Commission's Rules. . . ." which deal with the station's " . . . failure to maintain operational EAS equipment". (3) The FCC has fined WRSS-1410 San Sebastian, Puerto Rico \$5,600 " . . . for willful violation of Section 73.49 of the Communication's Rules . . . for failure to enclose the station's antenna structure within a locked fence or other enclosure." (4) The FCC has fined KWYD-1580 Colorado Springs, Colorado \$19,000 "for willful and repeated violation of rules" covering the following: "not having fully operational Emergency Alert System (EAS) equipment; not reducing power at sunset and resuming authorized daytime power the next morning . . . and not having a full-time management and staff presence during normal business hours at KWYD's main studio."

□ Since *DX News* is getting back to the "DX Season Schedule" beginning next issue, we are relying on you to keep the rest of the readership informed of details about facilities in your area. So, don't hesitate to contribute information. In addition to those named prior, my thanks go out to Shawn Axelrod, Perry Crabill, Wayne Heinen, John Hunter, Deane McIntyre, Doug Smith, and Fred Vobbe for contributions this issue.

GRAVEYARD DX UPDATE

* indicates record held by DXer from North America (excluding Alaska)

1450 kHz:

KCLA AR Pine Bluff

Steve Francis

Alcoa, TN

Miles

470

What? You missed another short-notice DX test because you forgot to register for e-DXN? Proceed directly to www.e-dxn.com and follow the indicated links to join up. It's free until January 1!

The NRC AM Radio Log, 26th Edition,
including cross-referenced listings from 530-1700 khz., is compiled from both listeners' reports and official sources, making it the most accurate listing of U.S. and Canadian AM stations available. Unbound, three-hole punched for standard binders. \$19.95 to U.S. members; \$25.95 to U.S. non-NRC members; to Canadian members, \$23.00 (\$29.00 to non-NRC members). Airmail to members in western Europe (except Italy) and Australia, New Zealand, and Japan: \$29.00. All others contact us for exact prices. Order from: NRC Publications - Box 164 - Mannsville, NY 13661 (NY residents, please add sales tax).

Domestic DX Digest

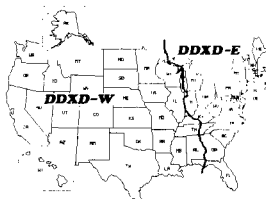
West: Bill Dvorak westlogs@aol.com

501 Algoma St. - Madison, WI 53704-4812

East: Ginnie Lupi DDXD-E@nycap.rr.com

PO Box 4404 - Clifton Park, New York 12065-0853

(Division line is
between East and
Central time zones)



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

DDXD-West

FROM THE VAST WESTLAND

- When I began DXing in 1956, my first "logbook" was a 3"x5" pocket notebook that, though tattered and very worn, still exists to this day. On page one, the 17th entry reads "WWL New Orleans La." To an impressionable 11-year-old, being able to hear a station from Denver or Atlanta or Boston or New Orleans was the biggest part of the romance of radio, and the greatest draw to what has become a lifelong hobby. AM radio has been painted as irrelevant by many in this day and age, but in the wake of Hurricane Katrina, it again proved its versatile worth. All over the Gulf region, where more modern modes of communication were wiped out, those lucky enough to have a portable radio and supply of batteries could depend on WWL, "The Big 870," to do what it has done for generations—provide vital information in times of great need. The station did not completely escape problems, but devoted engineers and staffers kept disruptions to a relative minimum and the information flowing under the most dire of conditions. May there never be another disaster as bad as Katrina, but may WWL live on for a long, long time!
- It was great seeing twelve of my fellow NRCers, part of the 41 DXers in attendance, at the 12th Annual Madison-Milwaukee DX Get-together on August 20. Look for a write-up on the GTG in this issue's "Musings."
- Remember, the next *DX News* is the first issue of Volume 73, and will be in your mailbox in only two weeks. See you then! 73 Bill

Reporters

DB-IA	Doug Beard, Springville. Wife's 1969 Motorola portable.
DBJ-TN	David B. Jones, Springfield. Drake R8B, Quantum QX Pro loop.
GH-IL	Greg Harris, Park Forest. FRG100B with Quantum loop or Grundig S350 with internal ferrite rod antenna.
JJR-WI	John J. Rieger, South Milwaukee. Icom IC-R75, Kiwa loop, MFJ-959B tuner-preamp.
JS-MN	John Sampson, Grand Rapids. Collins R-388 with KIWA loop.
JV-KY	John Vervoort, Madisonville. Grundig YB 400PE.
MS-MB	Morris Sorensen, Winnipeg. Drake R8 with Quantum QX Pro loop.
NK-IL	Neil Kazaross, Barrington. Drake R8A with phased E-W BOG system.
NK-WI	Neil Kazaross, DXing from Grafton. Drake R8A and 475 foot BOG at 97 degrees.
RT-MN	Rick Turner, Bemidji. Grundig YB 400 PE, Select-A-Tenna 541.
SA-MB	Shawn Axelrod, Winnipeg. ICOM IC-R70, Drake R8, 4 foot unamplified box loop, Quantum loop, 150 foot outdoor wire, 100 foot indoor wire, MFJ 1026 phasing unit.
Ed.-WI	Your editor, Madison.

Station News

580	CJML MB	Winnipeg. 8/6 1057. Special events station noted back on for two weeks in commemoration of Victory in Japan and end of World War II. Good with mention of Kiwanis Chateau, nostalgic music and ID. Phone 204-895-2565. Power is 99 watts. (MS-MB)
580	CJML MB	Winnipeg. 8/6 1200. Back on the air with nostalgia format from August 6 to 20. They are running 99 watts. (SA-MB)
1070	KVKK MN	Verndale. 9/3 1400. New station that must have come on the air just a few days ago. "True Country" format with TOH ID as "Central Minnesota's True Country, KVKK Verndale-Wadena-Staples." Very strong here during the day and audible under WTSO at night. (JS-MN)

Expiring? Time to renew? Not sure when? Need to call or e-mail someone or join the listserv? Check the back page - it's all right there!

Presumed, Tentative, UnID

890	UNID	8/7 0415. Soft easy Spanish language music. Announcers were also calm and easy-going. No sign of WLS. (SA-MB)
1000	UNID	8/6 0106. Good over/under WMVP, with Mexican music. Slogan "La Guapa (slight pause) Radio" given by man after most songs. No calls or City of License given across the hour. No idea what station this might be, but not likely Mexican per conditions and antenna. (NK-WI)
1220	UNID	8/6 0202. Fair-to-good through WHKW and some WKRS. Religious-like SS songs, possibly SS contemporary Christian. Needed WRIB carries similar stuff at the time. Most definitely not XEB per web schedule. No IDs noticed across top of hour. (NK-WI)
1340	KVBRt MN	Brainerd. 8/12 0200. In briefly with "the AM 13-40 K?BR Satellite forecast." Most likely them, but could also possibly be KBBR, North Bend OR. (RT-MN) (We can always hope, Rick. Ed.-WI)

Regular DX Loggings (times in ELT)

580	WIBW KS	Topeka. 9/6 2200. Ad for "... Air in Topeka", followed by "We've been... station for 75 years, Five Eighty Radio, WIBW Topeka" into White Sox-Royals game. WKTY nulled. Faded out shortly thereafter. (RT-MN)
580	CKPR ON	Thunder Bay. 9/6 2310. Noted here with a Big and Rich song, mentions of Tim McGraw and other country artists, callsign ID. Probably a format switch to C&W. (RT-MN)
590	KXSP NE	Omaha. 9/2 0125. Unusually strong with no QRM; Fox Sports garbage and a few local announcements, IDing as "Big Sports 590." (JS-MN)
590	KXSP NE	Omaha. 9/7 0200. "This is the new Five Ninety, KXSP, Omaha-Council Bluffs," into sports scores. Previously logged as KOMJ. (RT-MN)
600	WMT IA	Cedar Rapids. 9/8 0357. Coast-to-Coast with George Noory. "News Radio Six Hundred, WMT, keeping you in touch with Cedar Rapids and the rest of Iowa." KSBJ semi-nulled. Some QRN from static crashes. (RT-MN)
740	CHWO ON	Toronto. 8/7 0527. "This is Prime Time Radio, CHWO 740 Toronto" by a male announcer. Decent signal with some fading. Not very exotic, but never heard them before. (GH-IL)
820	WNYC NY	New York. 8/5 2128. Good, over/under CHAM with BBC programming and then NPR programming. No sign of WWLZ at the time. Gradually faded under CHAM as time passed. New (NK-WI)
860	KKOW KS	Pittsburg. 9/3 2319. "860 AM KKOW" by a male announcer. Station came up from the noise for about 5 minutes, then fell back into noise when overwhelmed by a FF speaking station (probably CJBC). (GH-IL)
870	KPRM MN	Park Rapids. 9/1 0059. Poor in a weakened WWL null. Legal ID, CBS news. (JJR-WI) (WWL reportedly was running only 25 kw instead of their normal 50 kw during this period. Ed.-WI)
910	WSBA PA	York. 8/5 2317. Poor-to-fair but atop, with Orioles baseball (/WBAL) just ending, into ID. (NK-WI)
910	WAKO IL	Lawrenceville. 8/13 2257. "Oldies 910 WAKO." High noise and co-channel interference, good signal long enough for the ID and two ads. Downstate IL and 50Watts. (GH-IL)
1020	KJJK MN	Fergus Falls. 8/20 2325-2354. "Groovy ten-twenty" ID, with, ironically, light-weight late 60s & early 70s pop-rock. Weather, promo and local ads at 2351-2354 finally told me who they were. Strong; fighting KDKA for dominance. Must have been using the 2kw ND day facility. (DB-IA)
1020	KJJK MN	Fergus Falls. 8/29 0638. Poor; "Groovy 1020 KJJK" and oldies. No KDKA at all! (JJR-WI)
1070	CBA NB	Moncton. 8/5 2200. Very good to excellent and best ever, far atop CHOK, with almost no trace of WTSO. Mention of CBC Radio 1 but no call ID across the hour, followed by news and detailed weather report for Maritimes. (NK-WI)
1080	WHOO FL	Kissimmee. 8/17 0130. ESPN programming, ID as AM 1080, ESPN Orlando. Station runs 190 watts at night now, per call to Bobby Gray CE. He was amazed that I logged them in Springfield. (DBJ-TN)
1090	KXMA CO	Aurora. 8/9 0700. Poor, fair at times, with no KAAY present. Legal ID, news in Spanish. (JJR-WI)

1090 WFCV IN Fort Wayne. 8/9 0700. Very poor, though clear legal ID under KMXA. Not common. (JJR-WI)

1120 WKQW PA Oil City. 8/6 0057. Excellent, simply crushing KMOX and bits of WPRX. "Wildcatter Country" slogans, Real Country format. Must be cheating at night to show off new format. (NK-WI)

1130 WBBR NY New York. 8/20 2100. "By satellite and now on the internet, this is WBBR 1130, Bloomberg News Radio, New York," by a female announcer. Good strength for brief period. QRM from WISN and others. Not exotic, but never heard these guys before, always WISN or KWKH. (GH-IL)

1190 WLIB NY New York. 8/5 2218. Fair-to-good, slightly under WOWO, with ID during break from talk programming. (NK-WI)

1210 KGYN OK Guymon. 8/9 0645. Poor; Classic Country music, calls. No WPHT. (JJR-WI)

1220 WHKW OH Cleveland 8/14 2130. Poor signals, with religious programming. NEW! (SA-MB)

1230 WECK NY Cheektowaga. 8/6 0104. Fair and on top, with local ads into Music of Your Life. This station is a semi-regular on this BOG. (NK-WI)

1260 WNDE IN Indianapolis. 9/8 0045. "This is Fox Sports Radio twelve-sixty WNDE." Fair signal. (JV-KY)

1280 WADO NY New York. 8/5 2146. Fair but atop with SS Mets coverage and local ads. Was semi-dominant and in all night, with QRM from WHTK and some WNAM. (NK-WI)

1310 WEMG NJ Camden. 8/6 0046. Poor-to-fair through QRM (mostly WRSB with almost no WJBA present). Lively tropical SS music and shouted echoed "La Mega" ID. Not bad for 250 watts; I don't believe they cheat since I've noticed them cut power when received via SSS. (NK-WI)

1340 KWLM MN Willmar. 8/12 0300. Good signal at times, partial ID "News Talk AM 13-40, KWL-", ads for "Willmar Tire and Auto" and "... Communications of Willmar" into ABC news, followed by "The Dave Ramsey Show." Distance 163 miles. (RT-MN)

1350 WARF OH Akron. 8/12 0257. Fair signals with ID as "13-50 AM Radio Free Ohio." NEW! (SA-MB)

1360 WNJC NJ Washington Township. 8/6 0003. Excellent!! Generally far atop WYOS and others. Ending brokered SS religion (announcing 856 area code), into a legal English ID as WNJC Washington Township-Philadelphia. Huge best ever signal, making me think that even if on day power something is wrong with their pattern. (NK-WI)

1370 WDEF TN Chattanooga. 9/1 2037. "Your home of the Atlanta Braves, this is Chattanooga's ESPN Radio 1370, Take It With You." Good signal and dominating the frequency for a brief time. (JV-KY)

1390 WTJS TN Jackson. 9/1 2045. "Newsradio 1390 WTJS, Coverage You Can Count On." Fair to good signal. (JV-KY)

1420 WHK OH Cleveland. 8/14 2145. Money talks program same as internet webcast. New! (SA-MB)

1430 WIL MO Saint Louis. 8/18 2230. Good signals with country music, Saint Louis ads and ID as "Country Legends 14-30." NEW (SA-MB)

1480 WSPY IL Geneva. 8/29 0706. Poor, with calls, nostalgia. Alone on frequency. Not heard in a while. (JJR-WI)

1500 KSTP MN Saint Paul. 8/29 0016. "AM 1500 KSTP" by a male announcer, and various ads. Signal sounded heavy on carrier, light on modulation. (GH-IL)

1510 WLAC TN Nashville. 8/6 2257. "Rush Limbaugh on Newstalk 1510 WLAC" by a male announcer. Weaker signal than it should be. (GH-IL)

1550 WCVL IN Crawfordsville. 8/12 2108. "The songs you grew up with, the Music of your Life. 1550 WCVL." Weak signal, much interference. (GH-IL)

1550 KYAL OK Sapulpa. 8/13 2248. Fair over/under KSFT with WWLS 640 ID into sports. (NK-IL)

1620 WNRP FL Gulf Breeze. 8/1 0509. Poor signals mixing with KOZN and WHLY, but managed to pull them out for a bit with country music. NEW! (SA-MB)

1690 WWAA GA Avondale Estates. 8/21 0500. Poor signals in a mess but clear full ID on the hour. NEW (SA-MB)

1700 KBGG IA Des Moines. 8/13 0500. Good signal. TOH ID in rapid SS; caught "KBGG" and "La Ley." (GH-IL)

TIS, HAR, Etc.

1610 UNID 8/7 0405. Woman announcer with partial ID as Radio 1610 and/or Information Radio. Seemed to asking for others to join as announcers. Got a partial phone number as 299-???? (SA-MB) (One possibility is just below, Shawn. Ed.-WI)

1610 WPVW207OH Kettering. 8/13 2254. Poor-to-fair, QRM from Canadian 1610 stations. "Information Radio 1610" ID, and spots and info for Kettering, Dayton, and Beavercreek. Mention of Ohio Department of Transportation. New! (NK-IL)

DDXD-East

REPORTERS

SF-TN Steve Francis, Alcoa - GE Stereo and Select-A-Tenna.

RJ-NC Russ Johnson, Lexington - Sony 2010, Longwires.

IEN-GA Ira Elbert New, III, Watkinsville - Sangean AT5 909, with and without Select-A-Tenna; 2002 Nissan Sentra GXE In-Dash Audio System CY310; 2003 Isuzu Rodeo In-Dash Audio System; or Drake R8B with 135' N/S Wire.

IEN-GA Ira Elbert New, III, Watkinsville -

STATION LOGGINGS

590 WCAB NC Rutherfordton - 8/30 2045 - Braves Baseball. Good signal at times, but it would also fade to nothing at times. "AM 59, WCAB, Rutherfordton". (IEN-GA)

620 WGCV SC Cayce - 8/29 0043 - Spot promoting the station's Gospel format and how it connects with the African-American Community. Good signal that faded into the mix. "WCCV, Where Knowledge is Power". (IEN-GA)

680 WDBC MI Escanaba - 8/7 2210 - Oldies mixed with WPTF in Raleigh, NC and 1/4-hour drop. Slightly less than good signal. "WDBC". (IEN-GA)

710 WUFF GA Eastman - 8/11 0743 - Country music and ads for stores in and around Eastman and Dodge County, GA. Decent signal in the morning static. "WUFF 97 FM" and "FM 97.5". (IEN-GA)

730 WLTQ SC Charleston - 9/2 0750 - A simulcast of WSCC 94.3 FM in Goose Creek, SC with Charleston area traffic and weather. Good signal that would fade into and under the static. "Newsradio Ninety-Four Three, WSC-FM". (IEN-GA)

770 WYHG GA Young Harris - 8/19 2000 - Weak TOH ID in the mix with WLWL in Rockingham, NC. "WYHG, Young Harris". (IEN-GA)

870 WPWT TN Colonial Heights - 8/28 2014 - 1/4 Drop. Good signal for the time it took to be played. I heard something before it aired, but nothing after it. I don't know if what I heard before the drop was from the station or not. I was hoping to hear Hurricane Katrina coverage from WWL. "...for the Tri-Cities, WPWT, Colonial Heights". (IEN-GA)

900 WJLG GA Savannah - 8/14 0110 - Gospel music. Good signal at times that would fade to almost nothing. "The Light, America's Inspiration Station". (IEN-GA)

1060 WIXC FL Titusville - 8/22 2321 - Sports news. Weak and a bit buried in the static. "...Tampa Bay Devil Rays on ESPN AM 1060" and "Brevard's ESPN Radio 1060". (IEN-GA)

1090 WHGG TN Kingsport - 8/19 2258 - Oldies. Good signal that sounded like a local earlier in the evening. "The Mighty 1090" and "The Mighty 1090, Kingsport, Gotham City, Bristol". (IEN-GA)

1160 WJFJ NC Tryon - 8/23 2301 - Gospel music & TOH ID buried in the static. "WJFJ, Columbus, North Carolina". (IEN-GA)

1180 WVLZ TN Knoxville - 8/10 2000 - Ads for stores in and around Knoxville, TN. TOH ID into ESPN Radio News. Semidominant signal in a mix of others with fades. "1180, WVLZ...Knoxville". (IEN-GA)

WZQZ GA Trion - 8/10 2100 - Oldies into USA Radio News. Decent signal with fades, competing with WHAM in Rochester, NY. "WZQZ, Trion, Summerville". (IEN-GA)

1250 WTMA SC Charleston - 9/3 2047 - Promo for show on the station. Good signal that faded away. "...on Newstalk 1250, WTMA". (IEN-GA)

1260 WYDE AL Birmingham - 8/26 0750 - Simulcast of WYDE "101.1-FM The Source" in Cullman, AL, with Birmingham news and weather. Decent signal in the mix. "101.1-FM, The Source". (IEN-GA)

12			
1300	WNQM TN	Nashville - 9/3 2100 - Religious programming. Good signal with fades. "AM 1300, WNQM, Nashville, Tennessee". (IEN-GA)	
1370	WSPD OH	Toledo - 8/30 2230 - Bottom of the hour newscast. Good, steady signal. "Newsradio 1370, WSPD". (IEN-GA)	
1400	WWIN MD	Baltimore - 8/23 0505 - "WWIN Sports... both the Orioles and Nationals were off last night." (RJ-NC)	
	WMAN OH	Mansfield - 8/23 0559 - "News first, WMAN Mansfield." (RJ-NC)	
1440	WZYX TN	Cowan - 9/6 0000 - Oldies. Decent signal on top of the mix of stations and static. "WZYX, Cowan". (IEN-GA)	
1450	WHKP NC	Henderson - 8/9 2259 - "from 1450, WHKP radio..." (RJ-NC)	
1460	WHAL AL	Phenix City/Columbus - 8/19 1944 - Columbus Catfish Baseball (Catfish versus Rome Braves). Dominant signal in the mix. "...WDAK for Catfish Baseball". (IEN-GA)	
	WHBK NC	Marshall - 8/19 1946 - Gospel Music. In the mix with WHAL in AL. "The Gospel Voice of Western North Carolina, WHBK". (IEN-GA)	
	WEWO NC	Laurinburg - 9/5 2341 - Gospel music in the mix with an Oldies station. "WEWO, Your favorite Gospel radio station. AM 1460". (IEN-GA)	
	WEKB KY	Elkhorn City - 9/6 0028 - Oldies and weather for Kentucky and surrounding areas. Decent signal with fades. "Oldies Radio Network". (IEN-GA)	
	WBNS OH	Columbus - 9/6 0057 - Sports stories, news and scores. Decent signal in a mix of others. "Sportsradio 1460, The Fan. Home of the Buckeyes". (IEN-GA)	
1560	WPGY GA	Ellijay - 8/22 1916 - Country music. Weak, but steady in the evening static. "WPGY". (IEN-GA)	
1600	WTZQ NC	Hendersonville - 9/5 1900 - Chuck Mangione's "Feels So Good" into TOH ID and news. Good signal that faded away from time-to-time. "Timeless Classics on WTZQ, Hendersonville, Flat Rock". (IEN-GA)	
1640	WTNI MS	Biloxi - 8/27 0200 - Good with "This is South Mississippi's home for talk, news and information, TalkRadio 1640, WTNI, Biloxi". (SF-TN)	
	KFXV OK	Enid - 8/31 2300 - Poor in WKSH null with Oklahoma Department of Human Services PSA, then "More Fox Sports Radio - 1640 KFXV, Enid-Oklahoma City". WTNI disabled or destroyed by the hurricane. (SF-TN)	
1670	WTDY WI	Madison - 8/10 2206 - Talk show with Religious themes. Decent signal trading space with WMWR in Dry Branch, GA. "Madison's 1670, The Pulse". (IEN-GA)	
1680	WLAA FL	Winter Garden - 9/5 2000 - Spanish Music into TOH ID. ID was given in English, but followed by Spanish announcements. Good signal (5 over S9) mixed with bleed from WWAA in Avondale Estates, GA on 1690. "WLAA, Orlando". (IEN-GA)	

For Beginners Greg Harris wdx9khy@sbcglobal.net
262 Juniper St.

Park Forest, IL 60466-1725

Shared techniques for the new and experienced DX'er

Hello - Now having acquired a receiver to DX with, how do we start? I would say, at first sit down during daylight sometime, start at the low end of the dial, and tune towards 1710 Kc/s. Why? You want to know which stations make up the "daytime dial". Which are regulars. Do this more than once. After doing this a few times sit down in the early evening and do the same thing. You will note additional stations maybe from downstate or nearby states. After having done this a time or two you are ready to tackle the late night broadcast band. Start at the low end of the dial, tune slowly and carefully and I would say make notes on what you hear. You will hear the clear channel stations (although it seems there's really no such thing anymore), the 5KW "regionals" and if you are careful maybe some of the low power operations. These can carry over surprising distances. How do we keep track of what we are hearing? A good log always helps. It is purely a matter of personal taste and I suspect some DX'ers don't bother with a log. I myself take my logbook very seriously. It is a fantastic record of my "DX achievements", and can bring a light to the eye to read years later. More on what makes a good log next time.

International DX Digest

Bruce Conti nrcidxd@aol.com

46 Ridgefield Drive
Nashua, NH 03062-1174

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

Our prayers are with NRC/DXAS members and any members of the greater DX community that may have been directly affected by hurricane Katrina. WHRI shortwave has been relaying 870 WWL New Orleans, keeping family and friends around the world informed. An x-class solar flare has brought about geomagnetic storm activity to stir up mid-September DX. Plenty of late summer DX logs here, and now you can read all about it online at www.e-dxn.com!

Transatlantic DX

153	GERMANY	Deutschlandfunk, Donebach (49°34'N 09°11'E) AUG 24 0020 - Parallel 1422 with Charlie Parker style jazz; excellent. [Connelly*R-MA 3680mi 5922km]
162	FRANCE	France-Inter, Allouis (47°10'N 02°12'E) AUG 18 0113 - French teletalk; fair to good. [Connelly*B-MA 3485mi 5609km] AUG 24 0022 - Woman in French mentioned "Union Europeen"; excellent. [Connelly*R-MA 3454mi 5559km]
171	MOROCCO	R.Mediterranee Internationale, Nador (35°03'N 02°55'W) AUG 18 0114 - Mideast dance music with drumming; fair. [Connelly*B-MA 3623mi 5831km] AUG 24 0022 - Woman in French; excellent. [Connelly*R-MA 3591mi 5780km]
177	GERMANY	Deutschlandfunk Berlin, Oranienburg (52°48'N 13°24'E) AUG 24 0023 - Classical music; very good. [Connelly*R-MA 3749mi 6034km]
189	ICELAND	Ríkisútvarpið, Gufuskálar (64°54'N 23°55'W) AUG 24 0023 - Icelandic talk by man and woman; good. [Connelly*R-MA 2364mi 3805km]
198	UNITED KINGDOM	BBC R.4, Droitwich et al. (52°18'N 02°06'W) AUG 18 0112 - English talk, then African drums; fair. [Connelly*B-MA 3182mi 5122km] AUG 24 0023 - Talk about water quality problems in third world countries; excellent. [Connelly*R-MA 3152mi 5073km]
207	GERMANY	Deutschlandfunk, Aholming (48°43'N 12°56'E) AUG 24 0024 - Parallel 153 with Otis Redding song; slightly under Morocco. [Connelly*R-MA 3858mi 6209km]
207	MOROCCO	RTM Azilal (31°54'N 06°33'W) AUG 24 0023 - Woman in Arabic; over Germany. [Connelly*R-MA 3522mi 5668km]
234	LUXEMBOURG	R.Luxembourg, Junglinster (49°40'N 06°19'E) AUG 18 0108 - "When the Music's Over" by the Doors; good. [Connelly*B-MA 3590mi 5777km] AUG 24 0026 - Rock music, man in French; good. [Connelly*R-MA 3560mi 5729km]
252	IRELAND	RTÉ R.1, Clarkestown AUG 18 0109 - News discussion; fair over SKR beacon. [Connelly*B-MA]
261		unID AUG 24 0027 - Drumming, Middle East influenced jazz; fair. Russia? [Connelly*R-MA]
531	ALGERIA	Chaîne 1, Ain-El-Beida (35°49'N 07°19'E) AUG 24 0018 - Parallel 549 and 890.95 with Arabic music; over Spain, others. [Connelly*R-MA 4057mi 6530km]
549	ALGERIA	Alger Chaîne 1, Les Trembles (35°17'N 00°34'W) AUG 24 0017 - Parallel 890.95 with Arabic male vocal with large orchestra; good. [Connelly*R-MA 3698mi 5951km]
567	IRELAND	RTÉ Tullamore (53°17'N 07°22'W) AUG 24 0016 - Parallel to monster-level 252, old-time Julie Andrews showtune vocal; fair. [Connelly*R-MA 2922mi 4702km]
576	ALGERIA	Alger Chaîne 1, Bechar (31°38'N 02°18'W) AUG 24 0014 - Probably this with Arabic music; under Canaries-Spain. [Connelly*R-MA 3744mi 6025km]
576	CANARY ISLANDS // SPAIN	RNE5 synchros AUG 24 0014 - Spanish talk; fair, over likely Algeria. [Connelly*R-MA]
585	SPAIN	RNE1 Madrid (40°28'N 03°52'W) AUG 24 0014 - Parallel 855 with two men in Spanish; fair. [Connelly*R-MA 3370mi 5423km]
603	FRANCE	France Info, Lyon-Tramoyes (45°53'N 04°57'E) AUG 24 0029 - Parallel 1206 with large orchestra playing the "Gone With the Wind" theme; poor to fair. [Connelly*R-MA 3610mi 5810km]
612	MOROCCO	RTM A, Sebâa-Aioun (33°54'N 05°23'W) AUG 24 0012 - Strident-delivery Arabic talk by man; good. [Connelly*R-MA 3509mi 5648km]
621	CANARY ISLANDS // SPAIN	RNE1 synchros, Santa Cruz de Tenerife et al. AUG 24 0031 - Parallel 774 with fast Spanish talk by woman; fair. [Connelly*R-MA]
639	SPAIN	RNE1 La Coruña et al. AUG 24 0011 - Parallel 855 with man in Spanish; in tough

- CBN slop. [Connelly*R-MA]
- 657 **SPAIN** *RNE5* Madrid (40°28'N 03°52'W) AUG 24 0009 - Parallel 855 and 1107 with Spanish discussion; fair over others. [Connelly*R-MA 3370mi 5423km]
- 666 **PORTUGAL** *RDP Antena 1* synchros AUG 24 0008 - Portuguese phone interview; poor to fair. [Connelly*R-MA]
- 675 **NETHERLANDS** *Arrow Classic Rock*, Lopik (52°01'N 05°03'E) AUG 24 0038 - Apparent John Cougar Mellencamp song; poor, in tough WRKO slop. [Connelly*R-MA 3447mi 5547km]
- 684 **SPAIN** *RNE1* Sevilla (37°12'N 05°55'W) AUG 24 0005 - News ends, a bit of music, then woman does talkshow mentioning Venezuela; very good with WRKO phased. [Connelly*R-MA 3373mi 5428km]
- 693 **UNITED KINGDOM** *BBC R. 5 Live*, Droitwich et al. AUG 24 0004 - News mentioning Labour Party, Parliament; fair with CINF phased. [Connelly*R-MA]
- 711 **FRANCE** *France Info*, Rennes (47°51'N 01°30'W) AUG 19 0154 - Fair; over multiple hets against 710 WOR. [Conti-NH 3313mi 5332km]
- 711.05 **WESTERN SAHARA** *RTM Addakhla* (23°42'N 15°56'W) AUG 24 0002 - Arabic talk; slightly over 711 France, nasty rumble resulting. [Connelly*R-MA 3361mi 5409km]
- 729 **SPAIN** *RNE* synchros AUG 24 0040 - Parallel 774 with Spanish talk; in bad CKAC/WJTO slop. [Connelly*R-MA]
- 738 **SPAIN** *RNE1* Barcelona (41°23'N 02°12'E) AUG 19 0144 - Good; loud het against dominant 740 CHCM. SEP 9 0215 - Good; talk parallel 684 kHz. Earlier, it was extremely auroral. The east Ewe was dead, and there was a WWCR/EWTN mixing product on 740 kHz, apparently aurora induced. [Conti-NH 3665mi 5899km] AUG 24 0041 - Parallel 774 with talk, '50s music; fair through CHCM chatter with WJIB/CHWO in null. [Connelly*R-MA 3625mi 5835km]
- 747 **NETHERLANDS** *747AM Flevoland* (52°23'N 05°25'E) AUG 19 0140 - Presumed; instrumental music poor to fair on fade ins over Canaries/Spain. [Conti-NH 3485mi 5609km] AUG 24 0042 - Dutch vocal and organ music; good, over Spain and CBYG slop. [Connelly*R-MA 3452mi 5556km]
- 765 **SWITZERLAND** *RSR Option Musique*, Sottens (46°39'N 06°44'E) AUG 19 0038 - Country-western style French male vocal, then "Oh Happy Day" by the Edwin Hawkins Singers; fair to good. [Connelly*B-MA 3695mi 5946km] AUG 24 0001 - Man with news in French; excellent. [Connelly*R-MA 3664mi 5897km]
- 774 **EGYPT** *Middle East R.*, Tanta (30°45'N 30°57'E) AUG 23 2353 - Arabic vocal; loud, way over Spain. [Connelly*R-MA 5353mi 8614km]
- 774 **SPAIN** *RNE1* synchros AUG 19 0136 - Good with synchro echo; discussion in Spanish parallel 855 kHz. [Conti-NH] AUG 23 2346 - Parallel 936 with Latin American style vocal; excellent, over Egypt. [Connelly*R-MA]
- 783 **MAURITANIA** *R.Mauritanie*, Nouakchott (18°07'N 15°57'W) AUG 24 0045 - Rustic bluesy Berber-style shouting vocal and guitar-like instrument; good, better than parallel 4845 which had inferior modulation. [Connelly*R-MA 3560mi 5793km] SEP 7 2345 - Excellent, equal to strong 4845 SW parallel during auroral conditions, loud het against 780 *R.Coro* Venezuela and unID domestic. [Conti-NH 3645mi 5867km]
- 792 **FRANCE** *France Info*, Limoges (45°56'N 01°10'E) AUG 19 0133 - Good; woman in French with news parallel 1206 kHz. [Conti-NH 3481mi 5602km] AUG 23 2359 - Parallel 837 and 1206 with classical music; good. [Connelly*R-MA 3443mi 5541km]
- 801 **SPAIN** *RNE1* synchros AUG 24 0046 - Parallel 855 with Spanish talk, then "I Got You (I Feel Good)" by James Brown; poor through slop. [Connelly*R-MA]
- 819 **EGYPT** *ERTU* Batra (31°09'N 31°27'E) AUG 24 0048 - Shrill Arabic vocal and flute; strong, over Morocco. [Connelly*R-MA 5356mi 8619km]
- 819 **MOROCCO** *RTM* Rabat (33°54'N 06°55'W) AUG 24 0048 - Parallel 612 with Arabic talk by woman; under Egypt. [Connelly*R-MA 3433mi 5525km]
- 837 **CANARY ISLANDS // SPAIN** *COPE* synchros AUG 23 2359 - Spanish talk; now good, taking over the channel from France. [Connelly*R-MA]
- 837 **FRANCE** *France Info*, Nancy (48°53'N 06°14'E) AUG 23 2357 - Parallel 792 with classical music; way over Canaries-Spain. [Connelly*R-MA 3578mi 5758km]
- 855 **SPAIN** *RNE1* synchros AUG 19 0056 - Good; discussion in Spanish, time marker into news at the top of the hour over an unID time marker. [Conti-NH] AUG 23 2355 - Parallel 1107 with Spanish teletalk with man and woman; good. Noted later with het and audible splash badly mucking up the 850 WEEI Red Sox game signal on the car radio en route home along sections of Route 1A that directly faced the salt-marsh to the east and had up-sloping rocky woodlands to the west. [Connelly*R-MA]
- 864 **EGYPT** *ERTU* Santah (30°45'N 31°08'E) AUG 23 2354 - Koranic a cappella male vocal; huge

- / local-like at S9+20, way over France. [Connelly*R-MA 5361mi 8627km]
- 864 **FRANCE** *France Bleu*, Villebon-sur-Yvette (48°41'N 02°14'E) AUG 19 0044 - Good; light French vocal. [Conti-NH 3452mi 5555km] AUG 23 2355 - "True" by Spandau Ballet, then French talk; noted during lengthy pauses in the Koranic vocal on much-stronger Egypt. [Connelly*R-MA 3415mi 5496km]
- 873 **SPAIN** *SER* synchros AUG 23 2352 - Teletalk parallel 1116; fair to good. [Connelly*R-MA]
- 882 **CANARY ISLANDS // SPAIN** *COPE* synchros AUG 23 2352 - Spanish teletalk; equal to co-channel UK strength. [Connelly*R-MA]
- 882 **UNITED KINGDOM** *BBC R.Wales*, Washford (51°10'N 03°21'W) AUG 19 0220 - Fair over Canaries/Spain; talk about Ecuador oil strike and other world events, at 0230 *BBC World Service* news, parallel 5975 kHz. [Conti-NH 3159mi 5084km] AUG 23 2352 - Man and woman in English; over/under *COPE* Canaries-Spain. [Connelly*R-MA 3123mi 5027km]
- 890.95 **ALGERIA** *Chaîne 1*, Algiers (36°40'N 03°09'E) AUG 17 2350 - Group chant; strong carrier, light audio. [Connelly*B-MA 3860mi 6213km] AUG 19 0120 - Fair; weak Arabic vocal parallel 153 kHz; loud het against 890 *R.Progreso* Cuba with domestics nulled out. Het was variable at times indicating reception of an unID second station on 891 kHz. [Conti-NH 3870mi 6229km] AUG 23 2350 - Arabic discussion; excellent, better than 890 WAMG. [Connelly*R-MA 3829mi 6162km]
- 909 **UNITED KINGDOM** *BBC R.5 Live* synchros AUG 23 2348 - Talk about police and the number of violent crime cases before and after the London transit bombings; excellent signal, clobbering WABI. [Connelly*R-MA]
- 918 **SPAIN** *R.Intercontinental*, Madrid AUG 23 2347 - Spanish talk; in and out of a jumble of other signals and some CJCH slop. [Connelly*R-MA]
- 936 **SPAIN** *RNE5* synchros AUG 23 2346 - Parallel 774 with Latin American style vocal; to good peak over others. [Connelly*R-MA]
- 945 **FRANCE** *France Info*, Toulouse (43°21'N 01°20'E) AUG 19 0041 - Good; pop French vocal parallel 1206 kHz. [Conti-NH 3564mi 5736km] AUG 23 2345 - Old-fashioned French male vocal and piano; good with 950 WROL phased. [Connelly*R-MA 3525mi 5673km]
- 954 unID AUG 24 0049 - Koranic chant; to good peak. Qatar schedule listed as 0245-2130, so maybe Turkey instead. [Connelly*R-MA]
- 963 **PORTUGAL** *R.Renasença*, Seixal (38°38'N 09°05'W) AUG 23 2343 - Portuguese-sounding talk; in heavy 960 CHNS and 970 WZAN slop. [Connelly*R-MA 3174mi 5108km]
- 972 **GERMANY** *NDR Info*, Hamburg (53°31'N 10°07'E) AUG 24 0050 - Tentative; probably this with light classical music, as not parallel to Spain or Libya stations. Heavily slopped by WZAN. [Connelly*R-MA 3605mi 5801km]
- 981 **ALGERIA** *RTVA Chaîne 2*, Algiers (36°40'N 03°09'E) AUG 23 2343 - Arabic male group vocal, then Arabic talk by man; very good with WCAP phased. [Connelly*R-MA 3829mi 6162km]
- 999 **MOROCCO** *RTM A*, Tanger AUG 23 2242 - Likely this with Arabic vocal; under Spain. [Connelly*R-MA]
- 999 **SPAIN** *COPE* Madrid (40°28'N 03°52'W) AUG 18 0048 - Man and woman with discussion in Spanish, segment of folk music, then more talk; loud, over Arabic music station. [Connelly*B-MA 3402mi 5475km] AUG 23 2242 - Parallel 1296 with lively discussion and teletalk; fair. AUG 23 2342 - Irish instrumental music, then man in Spanish; huge, way over Arabic music station. [Connelly*R-MA 3370mi 5423km]
- 1017 **SPAIN** *RNE5* synchros AUG 24 0052 - Parallel 774 with Bee Gees "Stayin' Alive"; over others. [Connelly*R-MA]
- 1026 **SPAIN** *SER* synchros AUG 23 2339 - Operatic vocal, then woman in Spanish; fair with WBZ phased. [Connelly*R-MA]
- 1044 **MOROCCO** *Sebaa-Aioun* (33°54'N 05°23'W) AUG 23 2338 - Rustic Berber shouting vocal and metal pipe banging; good with WBZ IBOC sludge (~1045) tightly phased. [Connelly*R-MA 3509mi 5648km]
- 1044 **SPAIN** *SER* synchros AUG 24 0053 - Very echoey Spanish teletalk. [Connelly*R-MA]
- 1053 **UNITED KINGDOM** *TalkSport* synchros AUG 19 0120 - Talk about "the Swiss team"; through WEPN slop. [Connelly*B-MA]
- 1080 **SPAIN** *SER* synchros AUG 23 2335 - Parallel 1116 with fast Spanish talk; slightly under WTIC. [Connelly*R-MA]
- 1089 **UNITED KINGDOM** *TalkSport* synchros AUG 24 0056 - Reverberated promo for "The Dynamic Duo on TalkSport" that reminded me of the fake radio stuff on "The Who Sell Out" album. Fair to good with WBAL phased. [Connelly*R-MA]
- 1098 **SPAIN** *RNE5* synchros AUG 18 0006 - Echoey Spanish talk; over possible tone tester. AUG 19 0119 - Spanish discussion; over second station. [Connelly*B-MA] AUG 23 2329 - Parallel

- 774 with Spanish; over unID music station. [Connelly*R-MA]
 1106.772 **EGYPT** Batrah (31°09'N 31°27'E) AUG 23 2325 - Het and bits of audio almost overtaking 1107 Spain. [Connelly*R-MA 5356mi 8619km]
 1107 **SPAIN** RNE5 synchros AUG 19 0056 - Woman with echoey Spanish talk; over growl from Egypt on low side. [Connelly*B-MA] AUG 19 0123 - Fair; male and female alternating talk in Spanish. [Taylor-NB] AUG 23 2327 - Parallel 774 with echoey Spanish talk; dogged by 1106.772 Egypt het. [Connelly*R-MA]
 1116 **SPAIN** SER synchros AUG 19 0107 - Good; male and female announcers reading news clips in Spanish. Music stingers between segments. [Taylor-NB] AUG 19 0118 - Teletalk with woman; fair. [Connelly*B-MA] AUG 23 2324 - Spanish talk; over unID possible African. [Connelly*R-MA]
 1116 unID AUG 23 2324 - African-sounding female vocal; under Spain. Maybe Angola? [Connelly*R-MA]
 1125 **CROATIA** HR Glas Hrvatske, Deanovec (45°42'N 16°29'E) AUG 23 2321 - Parallel 1134 with Slavic talk by man; to good peak, roughly 12 dB weaker than 1134 kHz. [Connelly*R-MA 4106mi 6608km]
 1134 **CROATIA** HR Glas Hrvatske, Zadar (44°06'N 15°15'E) AUG 18 0007 - Slavic newstalk by man and woman; good. AUG 18 0043 - Slavic male vocal in a '50s Frankie Avalon style; good. [Connelly*B-MA 4143mi 6667km] AUG 19 0109 - Fair to good in WBBR slop; alternating female and male hosts. [Taylor-NB 3784mi 6090km] AUG 23 2320 - Slavic talk by woman, a bit of cheering, then talk by man; loud, better than 1130 WBBR! [Connelly*R-MA 4112mi 6618km]
 1134 **SPAIN** COPE synchros AUG 23 2320 - Fast Spanish talk by man; about 10 dB behind dominant Croatia. [Connelly*R-MA]
 1143 **SPAIN** COPE synchros AUG 23 2319 - Parallel 1296 with teletalk; fair, somewhat choppy. [Connelly*R-MA]
 1152 **SPAIN** RNE5 synchros AUG 19 0125 - Poor; exact same fare as 1107 logging. As far as I can tell from switching back and forth they are parallel. [Taylor-NB] AUG 23 2238 - Spanish newstalk; fair with WTTT phased. [Connelly*R-MA]
 1169 **IRAN** IRIB Savasary, Semnan AUG 23 2318 - Het behind strong WFPB daytimer (which is one of a handful of US stations not in the normal null zone of my cardioid array). [Connelly*R-MA]
 1170 **UNITED ARAB EMIRATES** R.Sawa, Al Dhabiya (24°11'N 54°14'E) AUG 24 0058 - Mideast dance music with strings and drums; to good peak with WWVA phased. [Connelly*R-MA 6650mi 10702km]
 1179 **CANARY ISLANDS // SPAIN** SER synchros AUG 19 0128 - Echoey Spanish teletalk. [Connelly*B-MA] AUG 23 2317 - Spanish teletalk; fair. 1180 was no problem, but some buckshot from daytime superpest 1170 WFPB was. [Connelly*R-MA]
 1197 **SPAIN** Euskadi Irratia, Vitoria AUG 23 2316 - Slow song, then woman in Spanish; through WKOX slop. [Connelly*R-MA]
 1206 **FRANCE** France Info, Bordeaux (44°57'N 00°11'W) AUG 18 0008 - '80s dance-club style rock; to good peak. AUG 19 0106 - French cultural talk by woman, music segments; loud. AUG 23 0026 - Instrumental mood music similar to the "Godfather" theme; very good. [Connelly*B-MA 3442mi 5539km] AUG 19 0040 - Excellent; pop French vocal parallel 1557 kHz. [Conti-NH 3449mi 5551km] AUG 19 0128 - Good; jaunty tuba music and backup band. "Life is just a simple game," lyrics in English, followed at 0130 by woman announcer in French. Very strong on peaks. Parallel 1242 kHz. [Taylor-NB 3095mi 4982km] AUG 23 2236 - Woman talking over instrumental music; good. AUG 24 0101 - Like a local with French talk. [Connelly*R-MA 3410mi 5488km]
 1206 unID AUG 24 0101 - Perhaps Israel with bits of pop Mideast music; way under France. [Connelly*R-MA]
 1214.92 **ALBANIA** CRI relay, Fllakë (40°57'N 19°40'E) AUG 23 2259 - Emotional operatic / wailing vocal; 80 Hz growl messing up UK and Spain on 1215 kHz. [Connelly*R-MA 4420mi 7113km]
 1215 **UNITED KINGDOM** Virgin R. synchros AUG 19 0111 - Excellent with pop music. [Taylor-NB] AUG 19 0117 - "The Way It Is" by Bruce Hornsby & the Range; to good peak. [Connelly*B-MA] AUG 24 0102 - Tax consultation advert "call 0845 300 3900," Virgin Radio ID, then "Starman" by David Bowie; loud! [Connelly*R-MA]
 1224 **SPAIN** COPE synchros AUG 23 2243 - Parallel 999 and 1296 with Spanish teletalk and panel discussion; fair, some 1230 WESX slop. [Connelly*R-MA]
 1224 unIDs AUG 19 0114 - Two stations fighting it out, one with pop-type music and the other with Spanish talk with male announcers. I'm assuming the latter is COPE Spain, and maybe

- the former is R.Popular in San Sebastian? [Taylor-NB]
 1242 **FRANCE** France Info, Marseille (43°16'N 05°18'E) AUG 19 0131 - Fair; woman talking in French. Parallel 1206 kHz. [Taylor-NB 3391mi 5457km] AUG 23 2315 - Parallel 1206 with fast French talk by man and woman; to good peak over WBBR slop. [Connelly*R-MA 3706mi 5965km]
 1251 **LIBYA** Libyan Jamahiriya, Tripoli (32°50'N 13°00'E) AUG 23 2313 - Talk, then sad-sounding Arabic music; fair. [Connelly*R-MA 4442mi 7148km]
 1278 **FRANCE** France Info, Strasbourg (48°15'N 07°26'E) AUG 24 0104 - Parallel 1206 with woman in French; poor, mixed with others. [Connelly*R-MA 3646mi 5868km] EMWG and WRTH list this as France Bleu.
 1296 **SPAIN** COPE Valencia AUG 19 0134 - Fair; man taking calls in Spanish, and a male caller on the line. Sounded like they were assessing the health of soccer in Italy. Many mentions of "Italia" but the conversation was clearly in Spanish. Into a short music bed at 0135. [Taylor-NB] AUG 23 2242 - Parallel 999 with lively discussion and teletalk; loud. [Connelly*R-MA]
 1305 **SPAIN** RNE5 synchros AUG 24 0105 - Parallel 774 with Spanish talk; good signal strength, but very echoey audio. [Connelly*R-MA]
 1332 unID AUG 24 0106 - Rock music, probably a UK local; poor. [Connelly*R-MA]
 1341 **NORTHERN IRELAND** BBC R.Ulster, Lisnagarvey (54°30'N 06°04'W) AUG 24 0106 - Muffled English talk; poor. [Connelly*R-MA 2957mi 4758km]
 1359 **SPAIN** RNE Arganda del Rey AUG 24 0107 - Parallel 774 with romantic Spanish vocal; to good peak. [Connelly*R-MA]
 1377 **FRANCE** France Info, Lille (50°31'N 02°59'E) AUG 8 0116 - Old-time male vocal; fair. AUG 19 0131 - Woman in French; very good. AUG 23 0032 - Man and woman in French, a bit of music; to good peak. [Connelly*B-MA 3430mi 5520km] AUG 19 0137 - Fair to good on peaks; accordion music parallel to 1206 kHz. [Taylor-NB 3068mi 4937km] AUG 24 0107 - Electronic jazz instrumental; good. [Connelly*R-MA 3400mi 5472km]
 1395 **NETHERLANDS** Big L Radio London, Trintelhaven AUG 24 0108 - "Sweet Child O' Mine" by Guns N' Roses; good. [Connelly*R-MA]
 1413 **SPAIN** RNE5 synchros AUG 19 0139 - Woman in Spanish; echoey, poor. [Connelly*B-MA]
 1422 **ALGERIA** Algiers (36°40'N 03°09'E) AUG 23 0011 - Woman in French; over Germany which had opera. [Connelly*B-MA] AUG 23 2247 - Fast French talk by man; good, totally dominant. [Connelly*R-MA 3829mi 6162km]
 1422 **GERMANY** Deutschlandfunk, Heusweiler (49°21'N 06°55'E) AUG 7 0312 - Classical music; fair. AUG 19 0131 - Classical music; good. [Connelly*B-MA 3623mi 5831km] AUG 24 0020 - Parallel 153 with bebop jazz; fair. AUG 24 0108 - Classical music; huge. [Connelly*R-MA 3593mi 5783km]
 1431 **DJIBOUTI** R.Sawa, Arta (11°31'N 42°50'E) AUG 24 0109 - Arabic male high-energy rock vocal similar to Rolling Stones "Paint It, Black"; excellent, wasting WXXS. [Connelly*R-MA 6828mi 10989km]
 1494 **FRANCE** France Info synchros AUG 24 0110 - New-age orchestral music parallel huge 1206 kHz. [Connelly*R-MA]
 1503 **SPAIN** RNE5 Piñeira and La Línea de la Concepción AUG 23 2306 - Man and woman in Spanish; over others. [Connelly*R-MA]
 1512 **SAUDI ARABIA** BSKSA Jeddah AUG 24 0111 - Koranic male a cappella vocal; monster S9+30 signal, about equal to local 1510 WWZN (which it was rendering completely useless for casual listening). [Connelly*R-MA]
 1521 **SAUDI ARABIA** BSKSA Duba (27°20'N 35°45'E) AUG 23 2223 - Parallel 9555 and 9870 with excited discussion by two men in Arabic; excellent, over S-9, annihilating 1520 WIZZ, loudest TA an hour before sunset. Bit of vocal, maybe Spain, way under. AUG 23 2300 - Arabic news items about Hosni Mubarak, Kofi Annan, Sudan; huge S9+30, at least 15 dB better than 1520 WIZZ, WTHE, WWKB. [Connelly*R-MA 5725mi 9214km]
 1548 **KUWAIT** R.Sawa, Kabd-Kuwait City (29°10'N 47°32'E) AUG 18 0017 - Shrill female vocal with pop-style instrumentation; fast fades. AUG 23 0034 - Arabic female group disco vocal with heavy drumming; loud. [Connelly*B-MA 6152mi 9901km] AUG 23 2254 - Country-pop US female vocal; good. AUG 23 2302 - Celine Dion song, then woman in Arabic followed by high-energy Mideast dance-club music; good. [Connelly*R-MA 6123mi 9854km]
 1557 **FRANCE** France Info, Fontbonne AUG 7 0308 - French news by woman; fair. [Connelly*B-MA] AUG 19 0035 - Good; woman in French with news, France Info ID, and a pop French vocal. [Conti-NH] AUG 23 2224 - Man in French; good, stronger than 1560 WQEW! [Connelly*R-MA]
 1575 **UNITED ARAB EMIRATES** R.Farda, Al Dhabiya (24°11'N 54°14'E) AUG 7 0059 - Farsi talk

by woman, man mentioned *Radio Farda*, then segment of boy-band pop hit, more talk; to good peak. AUG 19 0138 - *R.Farda* ID by woman, drums, talk by man; through CFAV slop. AUG 23 0035 - Farsi talk by man and woman; good. [Connelly*B-MA 6679mi 10748km] AUG 24 0113 - Mideast dance club music with flutes, strings; good. [Connelly*R-MA 6650mi 10702km]

1584 **CEUTA** *RadiOlé*, Ceuta (35°53'N 05°17'W) AUG 8 0044 - Spanish vocal with a '50s feel to it. AUG 18 0022 - Emotional romantic vocal influenced by US soul music; good. [Connelly*B-MA 3479mi 5599km] AUG 23 2229 - Pop music, Spanish talk; building in strength. AUG 24 0114 - End of song, *RadiOlé* ID; good. [Connelly*R-MA 3447mi 5547km]

1593 unIDs AUG 24 0114 - Two station mix, one sounded English (Ireland?) and one Arabic (Egypt?). [Connelly*R-MA]

1602 **SPAIN** *R.Vitoria*, Vitoria (42°51'N 02°39'W) AUG 24 0116 - Festive group salsa vocal, *R.Vitoria* jingle, then folk-style female vocal; good. [Connelly*R-MA 3357mi 5403km]

Mark speaks: August the best DX month? You could almost make a case for it, based upon recent long-haul receptions by DXers on both the Atlantic and Pacific coasts of North America. The typical September through November "serious DXpedition season" should really be interesting.

Pan-American DX

560 **CUBA** *R.Rebelde*, Moa (20°40'N 74°56'W) AUG 26 0920 - Good; "Rebelde" ID, news reports via telephone, UTC-4 time check into feature report, parallel 670 and 5025 kHz. [Conti-NH 1532mi 2466km]

570 **CUBA** *R.Rebelde*, Santa Clara (22°24'N 79°56'W) AUG 26 0127 - Excellent; "Radio Reloj" ID, minute marker, "nueve veinte siete minutos" UTC-4 time check, RR code ID, and news with syncopated clock. [Conti-NH 1482mi 2385km]

600 **CUBA** CMKV *R.Rebelde*, Urbano Noris AUG 26 0125 - Fair; sports talk parallel 670 kHz. [Conti-NH]

640 **CUBA** *R.Progreso*, multiple sites AUG 26 0120 - Fair; pop vocals parallel 890 kHz, over an unID Latin American signal. [Conti-NH]

660 **CUBA** CMHG *R.Progreso*, Santa Clara (22°24'N 79°56'W) AUG 26 0830 - Good over WFAN; "Reportero RP" and "Radio Progreso cadena nacional transmitiendo... Habana Cuba" followed by bell and UTC-4 time check. [Conti-NH 1482mi 2385km]

670 **CUBA** *R.Rebelde*, Arroyo Arenas (23°00'N 82°30'W) AUG 26 0108 - Excellent; sports talk parallel 710 kHz. [Conti-NH 1498mi 2411km]

670 **CUBA** *R.Rebelde*, unknown location AUG 27 0005 - Minute markers, RR code IDs, and syncopated clock under *R.Rebelde*. New, not listed, never received on this frequency before. [Conti-NH]

690 **CUBA** *R.Progreso*, Jovellanos (22°49'N 81°10'W) AUG 26 0935 - Fair; *Progreso* ID and news parallel 890, over unID ranchera. [Conti-NH 1480mi 2381km]

710 **CUBA** *R.Rebelde*, multiple sites AUG 26 0106 - Sports talk; excellent, completely annihilating WOR New York. [Conti-NH]

720 **VENEZUELA** YVQE *Oriente 720*, Porlamar (10°56'N 64°12'W) AUG 27 0050 - Fair; *Oriente* ID and Venezuela time check, over an unID Latin American signal. [Conti-NH 2233mi 3593km]

730 **CUBA** CMBB *R.Progreso*, Nueva Gerona, Isla de la Juventud (21°53'N 82°48'W) AUG 26 0939 - Fair; news parallel 890, over presumed XEX Mexico. [Conti-NH 1577mi 2537km]

740 **CUBA** CMJL *R.Progreso*, Camagüey (21°23'N 77°54'W) SEP 9 0455 - Fair in CHWO null; pop music parallel 890 kHz. [Conti-NH 1516mi 2439km]

750 **VENEZUELA** YVKS RCR Caracas (10°29'N 67°00'W) AUG 26 0025 - Good; ad for Santa Barbara airlines into baseball play-by-play with a "linea hit." [Conti-NH 2236mi 3599km]

760 **COLOMBIA** HJAJ RCN Barranquilla (10°53'N 74°49'W) AUG 26 0031 - Good; "RCN en Atlantico" promo, "RCN la radio de Colombia" jingles, over an unID tropical music station. [Conti-NH 2201mi 3542km]

770 **CUBA** *R.Rebelde*, unknown location AUG 26 0941 - Excellent! News parallel 5025, no sign of WABC! [Conti-NH]

780 **VENEZUELA** YVMN *R.Coro*, Coro (11°23'N 69°40'W) AUG 26 0038 - Good; "Radio Coro 780 AM" ID and "Radio Coro 780" jingle in ad string. [Conti-NH 2161mi 3477km]

790 **CUBA** CMAQ *R.Rebelde*, Pinar del Río (22°25'N 83°43'W) AUG 26 0945 - Minute marker and code ID through WSKO. SEP 9 0359 - Good over WSKO New England Patriots play-by-play and 792 het. [Conti-NH 1566mi 2520km]

820 **CUBA** *R.Rebelde*, unknown site AUG 26 0947 - Good; news, syncopated clock, minute marker,

code ID, over unID domestics. SEP 9 0355 - Good over WNYC. [Conti-NH]

850 **CUBA** *R.Rebelde*, Nueva Gerona (21°53'N 82°48'W) SEP 9 0335 - Good in WEEI null; news, minute marker, code ID, and syncopated clock. [Conti-NH]

860 **CUBA** CMDB *R.Rebelde*, Baracoa (20°21'N 74°29'W) AUG 20 0054 - Minute markers and code IDs in CJBC null. [Conti-NH 1551mi 2496km]

870 **CUBA** CMDT *R.Rebelde*, Sancti Spiritus (21°56'N 79°26'W) AUG 26 0948 - Fair; news, clock, etc. over WWL. [Conti-NH 1503mi 2420km]

890 **CUBA** CMDZ *R.Progreso*, Chambas (22°11'N 78°54'W) AUG 26 0120 - Excellent; pop vocals parallel 640 kHz. [Conti-NH]

910 **VENEZUELA** YVRQ Caracas (10°32'N 66°55'W) AUG 26 0200 - Good; complete list of AM Center affiliates, then accordion music. [Conti-NH 2233mi 3594km]

930 **CUBA** *R.Rebelde*, multiple sites AUG 26 0131 - Fair; minute marker, RR code ID, news, syncopated clock, through presumed WGIN and an unID Latin American. [Conti-NH]

942 **CUBA** *R.Progreso*, unknown site AUG 26 0206 - Excellent signal; distorted audio parallel 890 kHz. [Conti-NH]

950 **CUBA** *R.Rebelde*, La Habana AUG 26 0135 - Good; news, IDs, syncopated clock, over unID Latin American signals. [Conti-NH]

960 **CUBA** CMDI *R.Rebelde*, Guantánamo (20°07'N 75°13'W) AUG 26 0137 - Fair; minute marker and code ID through unIDs. [Conti-NH 1572mi 2530km]

1000 **COLOMBIA** HJAJ RCN Cartagena (10°30'N 75°26'W) AUG 26 0155 - Good; "la radio de Colombia" jingle, over "Hope 1000" WCMX. [Conti-NH 2231mi 3590km]

1000 **MEXICO** XEOY *R.Mil Iztacalco*, México DF (19°23'N 99°07'W) AUG 26 0855 - Good; UTC-5 time check, romantic music parallel 6010 XEOI. [Conti-NH 2274mi 3660km]

1020 **CUBA** *R.Rebelde*, unknown location AUG 26 0051 - Fair in KDKA null; minute marker and code ID. [Conti-NH]

1020 **VENEZUELA** YVRS *R.Mundial Margarita*, La Asunción (10°55'N 63°48'W) AUG 27 0033 - Fair; *Radio Margarita* promo string, rustic folk music, over *R.Rebelde*. [Conti-NH 2239mi 3603km]

1060 **MEXICO** XEEP *R.Educación*, México (19°22'N 99°02'W) AUG 26 0907 - Good; nostalgic ranchera vocals parallel 6185 XEPPM. [Conti-NH 2272mi 3656km]

Transpacific DX

Ray speaks: Strange conditions this morning (August 24) with the approach of geomagnetic storms. Top of band dead, no DU signals. Then at 1044 UTC, weak carriers showed up on 1575 and 1566, peaked to good strength at 1052 and back down into noise within a few minutes. Meanwhile the usual DU on the x-band and 1557, 1548, 1512, 1503 not a trace. No nulls on either carrier which is usual for 1575. This is early in the season for 1575 which is fairly common in December and January - not much experience with 1566. Local sunrise this morning at 1104 UTC. Hopefully west coast DXers were listening. Yesterday August 23, x-band 1683.5, 1665, 1647, 1638, 1629 all had weak to good carriers peaking toward local sunrise while 1611 had jumble of audio.

Contributors

Mark Connelly, Billerica MA (42°32'N 71°13'W); Drake R8A, Palstar R30, DXP-6 phasing unit, Flag 5-m vertical x 10.6-m horizontal, base height 5 m.

Mark Connelly, Rowley MA (42°40'N 70°37'W); Drake R8A, Palstar R30, DXP-6 phasing unit, 3 m whip (MFJ-1954) to DX Engineering AVA-1 buffer amplifier; broadband loop, in vertical plane, square, 2 m per side, to 1:1 transformer to DX Engineering RPA-1 line amplifier, peak east-west, null north-south.

Bruce Conti, Nashua NH (42°43'N 71°31'W); R8B, MWDX-5, 15/23/15-m Ewe antennas east and south.

Ray Moore, Ft. Myers FL (26°36'N 81°55'W); R8, homebrew receiver, 23-inch spiral loop, Comdel preamp.

Brent Taylor, Doaktown NB (46°33'N 66°09'W); lcom R75 (Kiwa mods), Pennant oriented northeast.

International News

COSTA RICA: 5054.6 kHz TIFC, Spanish religious programming and light music heard at 0800-0930 Aug 13, very strong signal, extremely low audio although a tiny bit "better" this day (and Aug 14) than most. The programming is parallel their internet audio for 1080 MW at www.farodelcaribe.org/. (The internet audio is a few seconds behind the on-air audio.) [Jerry Berg, BADX]

IRELAND: 252 Weekend Sport is back on longwave. *RTÉ Radio One* will split 252 from 567 kHz for weekend sports coverage on both the FM and longwave 252 frequencies. "Following feedback from listeners, it is clear that there are sports fans who cannot receive our FM coverage.

We are therefore pleased to restore sports on Saturday and Sunday afternoons on longwave 252 - a clear signal on a single frequency. Listeners can continue to enjoy arts and features programming exclusively on the MW frequency." [www.rte.ie/radio1]

IRELAND: *Energy Power 1386 AM* heard for the first time tonight 16 July 2210 UTC on 1386 kHz. Used to be on 1395 before *Radio London* appeared. Reception is poor and their signal is similar strength to UK LPAM stations. [Steve Whitt, MWC E-Mail News] "We run our station on weekends from Dublin Ireland using a standard broadcast studio along with a computer music payout system. Our sender system comprises of a 0.3 kW solid state transmitter using high level modulation of the RF output stage. The modulation is generated using a pulse width modulator driving a single transistor class D switching amplifier. The carrier is generated using a phase locked loop oscillator. The antenna is a grounded Marconi flat topped T style monopole (1/8 wavelength) with inductive loading just under the flat top or "hat" of the antenna. Loading the antenna at the top of the vertical gives more amps in the air. The ground wave is solid for around 25 km sounding good on a cheap receiver. [John Marren, via Max Arnheim, MWC E-Mail News, via *ARC Info Desk*]

IRELAND: More sporting news; *RTÉ Radio One* will broadcast the All Ireland hurling and football finals, 2 - 6 p.m. Irish time, September 11 and 25, via shortwave in Africa on 15255, 17680, and 21730 kHz. [www.rte.ie/radio1]

MEXICO: 1700 XEKT (XEPE?) Tecate (more like Tijuana) has changed formats as expected. They now run Business Talk Radio with IRN news on the hour and Bruce Williams at night. At the top of the hour where an ID would normally be inserted, there is just dead air. I also haven't noted any slogans yet. It just seems to be pure network feed with nothing local inserted. [Tim Hall, *Corazón DX*]

MEXICO: XEIZ Monterrey, one of the three *Radio Fórmula* stations in Monterrey, has moved from 1240 to 1230 kHz. "Dario Monferini confirmed this when he was in Monterrey. This is interesting to me because I had a *Fórmula* station on 1230 a few months ago, and got a 1470 XEAI ID out of it. I had thought I was hearing the increased power of XEEX in Sinaloa, but the *Fórmula* website shows XEEX relays 970 XERFR while XEIZ relays XEAI." [John Callarman, *Corazón DX*]

73 and Good DX!

NRC Contest

An annual DX contest which encourages DX'ing and offers prizes

Bruce Conti nrcidx@aol.com
46 Ridgfield Drive
Nashua, NH 03062-1174

NRC 73 DX Contest Rules

Welcome to the **NRC 73 DX Contest: Going the Distance**. In this contest for *DX News* Volume 73, it's all about distance. Instead of assigning points for radio stations received, you will be accumulating air miles. There are three regional categories in which to compete for supremacy; North American, Pan-American International, and Transoceanic. Each category has two subcategories; Accumulated Miles, and Longest Distance. That's a total of six different categories in which to compete!

1. Contest Duration: The contest begins 12:00 a.m. EDT (0400 UTC) September 1, 2005, and ends 7:59 p.m. EDT (2359 UTC) May 31, 2006, with May logs due by June 20.

2. Contest Categories:

a. North America - Radio stations in Canada and the contiguous 48 United States, or in other words, loggings normally reported to the Domestic DX Digest columns in *DX News*.

b. Pan-American International - Includes Mexico, the Caribbean, and the rest of Central and South America, or in other words, Pan-American loggings normally reported to the International DX Digest column in *DX News*.

c. Transoceanic - Transatlantic and Transpacific DX loggings. Alaska and Hawaii have been traditionally reported with transpacific logs, and may be included here if not entered in the Pan-American category.

d. Accumulated Miles - Total distance in miles accumulated for each station received. For example, if the distance from your receiver location to KNRC is 221 miles, and to WNRC is 1266 miles, then the

total distance for your North American contest entry is $221 + 1266 = 1487$ miles. A radio station may not be counted more than once from the same receiver location for the duration of the contest.

e. Longest Distance - Simply the most distant radio station received in each category.

3. Distance Calculations:

a. You may provide your own receiver coordinates, or the Contest Manager will estimate your coordinates.

b. Radio station coordinates will be determined either from the FCC database, EMWG, 2005 WRTH, Radio and Television Broadcasting Stations 2005 (Australia), or the New Zealand Radio Frequency Register. Radio station coordinates for which no accurate data is readily available will be estimated by the Contest Manager.

c. Distances will be calculated by the Contest Manager using the Great Circle Distance ellipsoid formula for the shortest surface path between two points. Free software can be downloaded from the *Delphi For Fun* website at www.delphiforfun.org/Programs/Math_Topics/Lat-Long%20Distance.htm to calculate your own distances, but it's not required to enter the contest. Long path reception must be unequivocally documented to be considered.

d. Distances will be calculated using coordinates in degrees and minutes rounded to the nearest minutes. The resulting distance in miles will be rounded to the nearest mile.

4. Log Criteria:

a. Each log must contain the following, no exceptions: frequency and location, time and date of reception, and **positive ID** information. Mediumwave logs only; 530 - 1710 kHz inclusive.

b. Positive ID requires a minimum of any **two** of the following items **heard** for identification: call sign, city of license, unique identifiable name or slogan, or an unequivocal parallel. Examples of **acceptable** positive ID might be, "ESPN 900 Nashua, southern New Hampshire's 24-hour ESPN station" (slogan + city of license), or "Radio Nacional de España, Informativos" parallel 855 kHz (name + parallel). Examples of **unacceptable** ID, "AM 1370, the music of your life," or "Coast-to-Coast AM" parallel 630 kHz. In addition, an exotic foreign language may count as one of two items heard for an international log, especially in cases where it is unreasonable to expect fluency such as with Arabic or Chinese, subject to the approval of the Contest Manager, i.e. "Radio Sawa" in Arabic (name + language = two items). Longwave and shortwave parallels are ok.

c. Additional qualifications: Morse code will be accepted for *R.Reloj* Cuba ID. Synchronized stations or those that broadcast network programming exclusively from more than one station on the same frequency will only be counted as one station, using the highest power and/or closest distance, unless it can be proven unequivocally that a specific station was received. Synchronized stations may be counted as two logs, using the two most powerful and/or closest distances if synchro echo is received, subject to the discretion of the Contest Manager.

5. Eligibility Requirements:

You must be a member of the National Radio Club and/or DX Audio Service in good standing. The Contest Manager may compete but is not eligible for prizes.

6. Entry Requirements:

a. All entries must include the contestant's name, postal address, receiver location, the time zone used in loggings, and a list of equipment and antenna(s) used.

b. Entries for the previous month must be submitted by the 20th of the following month. In other words, September logs must be submitted by October 20, and so on. You may enter at any time, but late entries will be discarded.

c. E-mail entries to BAConti@aol.com should be contained in the body of the e-mail if possible. Attached files will not be accepted without prior approval. Approved file attachments should be compatible with Microsoft Word or plain text. The Contest Manager will make a reasonable attempt to resolve compatibility issues, but is not required to accept unreadable or infected files.

d. Hardcopy entries to 46 Ridgfield Drive, Nashua NH 03062-1174 must be neat and legible. The Contest Manager is not required to accept illegible entries. The Contest Manager is not responsible for items lost in the mail.

The Contest Manager reserves the right to change the rules as warranted. Rules may be added, amended, or clarified as required to ensure a fair contest. Grand prizes are a 2006 WRTH for the most distant signal in entries received as of January 20th, 2006, and one-year NRC or DXAS membership for the most accumulated air miles combined from all categories at the end of the contest. Additional prizes to be announced. Standings will be published periodically in *DX News*. 73 and Good Luck!

Professional Sports Networks

Barry S. Finkel bsfinkel@ANL.gov
 10314 S. Oakley
 Chicago, IL 60643-2409
Network listings for team sports stations

Here is National Football League flagship information from "Sporting News Preview" and the Internet via Ken Onyschuk. I added some information and made corrections during my Internet search for network lists. I have little information concerning foreign language broadcasts.

I have all the network lists except these three - New Orleans Saints, San Diego Chargers, and the Tampa Bay Buccaneers. I am not sure that the Pittsburgh Steelers', Oakland Raiders', and NY Jets' lists are for the current season. All of the other network lists will appear in my next column. Please send me any of these missing network lists or any announcer names that you have. Thanks.

Arizona Cardinals	620	KTAR-AZ	(EE)	Dave Pasch, John Mistler
	710	KMIA-AZ	(SS)	-Gabriel Trujillo, Luis Zendejas
Atlanta Falcons	92.9	WZGC-GA		Wes Durham, Chuck Smith, Dave Archer
Baltimore Ravens	1300	WJFK-MD		Tom Matte, Scott Garceau
	102.7	WQSR-MD		
Buffalo Bills	96.9	WGRF-NY		John Murphy, Alex Van Pelt
	103.3	WEDG-NY		
Carolina Panthers	1110	WBT-NC		Mick Mixon, Gene Robinson, Jim Szoke
	99.3	WBT-NC		
Chicago Bears	780	WBBM-IL		Jeff Joniak, Tom Thayer
Cincinnati Bengals	1360	WCKY-KY		Brad Johansen, Dave Lapham
	92.5	WOFX-OH		
	700	WLW-OH	a	
Cleveland Browns	100.7	WMMS-OH		—Jim Donovan, Doug Dieken, Mike Snyder,
Casey Coleman				
	1100	WTAM-OH		
Dallas Cowboys	98.7	KLUV-TX		—Brad Sham, Babe Laufenberg
Denver Broncos	850	KOA-CO	(EE)	Dave Logan, Dave Diaz
	1280	KBNO-CA	(SS)	Milo Sanchez, Saul Sanz
Detroit Lions	97.1	WKRK-MI		Dan Miller, Jim Brandstatter, Tony Ortiz
Green Bay Packers	620	WTMJ-WI		-Wayne Larrivee, Larry McCarren
	1400	WNGB-WI		
Houston Texans	610	KILT-TX		Marc Vandermeer, Andre Ware
	100.3	KILT-TX		
Indianapolis Colts	1260	WNDE-IN		-Bob Lamey, Mark Hermann, Ted Marchibroda
	94.7	WFBQ-IN		
Jacksonville Jaguars	690	WOKV-FL		Jeff Lageman, Brian Sexton
	96.9	WKQL-FL		
Kansas City Chiefs	101.1	KCFX-MO		—Mitch Holthus, Len Dawson, Bill Grigsby, Bob Gretz
Miami Dolphins	790	WAXY-FL		Jimmy Cefalo, Joe Rose, Nat Moore
	102.7	WMJX-FL		
Minnesota Vikings	1130	KFAN-MN		—Paul Allen, Joe Senser, Greg Coleman
New England Patriots	104.1	WBCN-MA		Gil Santos, Gino Cappelletti
New Orleans Saints	870	WWL-LA	(EE)	Jim Henderson, Hokie Gajan
	830	WFNO-LA	(SS)	
New York Giants	660	WFAN-NY		—Bob Papa, Dick Lynch, Dave Jennings
New York Jets	770	WABC-NY	(EE)	Bob Wischusen, Marty Lyons
	1280	WADO-NY	(SS)	Clemson Smith-Munoz
Oakland Raiders	560	KSFO-CA		-Greg Papa, Tom Flores
Philadelphia Eagles	94.1	WYSP-PA		Merrill Reese, Mike Quick
Pittsburgh Steelers	970	WBGG-PA		Bill Hillgrove, Myron Cope, Tunch Ilken, Craig Wolfley

	102.5	WDVE-PA		
Saint Louis Rams	550	KTRS-MO		—Steve Savard, Jack Snow, Malcom Briggs
	103.3	KLOU-MO		
San Diego Chargers	105.3	KIOZ-CA		Josh Lewin, Hank Bauer, Katy Temple
	1420	XEXX-BC	(SS)	Jorge Villanueva, Efrén Dominguez
San Francisco 49ers	680	KNBR-CA		Joe Starkey, Gary Plummer, John Shrader
	1050	KNBR-CA		
	107.7	KSAN-CA		
Seattle Seahawks	710	KIRO-WA		Steve Raible, Warren Moon
Tampa Bay Buccaneers	620	WDAE-FL		Gene Deckerhoff, Scot Brantley, Ronnie Lane
	103.5	WFUS-FL		
Tennessee Titans	103.3	WKDF-TN		Mike Keith, Frank Wycheck, Larry Stone
Washington Redskins	106.7	WJFK-VA		Sam Huff, Larry Michael, Sonny Jurgensen

- = announcers from last season
 — = announcers from a previous season

CBS Radio/Westwood One will again broadcast NFL games. The schedule is listed below; the airtimes are ELT. Note that a CBS/WW1 station may not carry a home game in deference to the team's flagship station.

<http://www.nfl.com/tvradio/partner/cbsradio> (09/06/2005)

Mon, Aug 8	Hall Of Fame Game (Miami Dolphins vs. Chicago Bears) 7:30 p.m.		
Thu, Sep 8	Oakland Raiders at New England Patriots 8:00 p.m.	Thu, Nov 24	Atlanta Falcons at Detroit Lions 12:00 p.m.
Sun, Sep 11	Indianapolis Colts at Baltimore Ravens 8:00 p.m.	Thu, Nov 27	Denver Broncos at Dallas Cowboys 3:45 p.m.
Mon, Sep 12	Philadelphia Eagles at Atlanta Falcons 8:00 p.m.	Sun, Nov 27	New Orleans Saints at New York Jets 8:00 p.m.
Sun, Sep 18	Kansas City Chiefs at Oakland Raiders 8:00 p.m.	Mon, Nov 28	Pittsburgh Steelers at Indianapolis Colts 8:00 p.m.
Mon, Sep 19	Washington Redskins at Dallas Cowboys 8:00 p.m.	Sun, Dec 4	Oakland Raiders at San Diego Chargers 8:00 p.m.
Sun, Sep 25	New York Giants at San Diego Chargers 8:00 p.m.	Mon, Dec 5	Seattle Seahawks at Philadelphia Eagles 8:00 p.m.
Mon, Sep 26	Kansas City Chiefs at Denver Broncos 8:00 p.m.	Sun, Dec 11	Detroit Lions at Green Bay Packers 8:00 p.m.
Sun, Oct 2	San Francisco 49ers vs. Arizona Cardinals 8:00 p.m. (at Mexico City, Mexico)	Mon, Dec 12	New Orleans Saints at Atlanta Falcons 8:00 p.m.
Mon, Oct 3	Green Bay Packers at Carolina Panthers 8:00 p.m.	Sat, Dec 17	Tampa Bay Buccaneers at New England Patriots 1:00 p.m.
Sun, Oct 9	Cincinnati Bengals at Jacksonville Jaguars 8:00 p.m.	Sat, Dec 17	Kansas City Chiefs at New York Giants 4:45 p.m.
Mon, Oct 10	Pittsburgh Steelers at San Diego Chargers 8:00 p.m.	Sat, Dec 17	Denver Broncos at Buffalo Bills 8:00 p.m.
Sun, Oct 16	Houston Texans at Seattle Seahawks 8:00 p.m.	Sun, Dec 18	Atlanta Falcons at Chicago Bears 8:00 p.m.
Mon, Oct 17	St. Louis Rams at Indianapolis Colts 8:00 p.m.	Mon, Dec 19	Green Bay Packers at Baltimore Ravens 8:00 p.m.
Mon, Oct 24	New York Jets at Atlanta Falcons 8:00 p.m.	Sun, Dec 25	Chicago Bears at Green Bay Packers 4:30 p.m.
Sun, Oct 30	Buffalo Bills at New England Patriots 8:00 p.m.	Sun, Dec 25	Minnesota Vikings at Baltimore Ravens 8:00 p.m.
Mon, Oct 31	Baltimore Ravens at Pittsburgh Steelers 8:00 p.m.	Mon, Dec 26	New England Patriots at New York Jets 8:00 p.m.
Sun, Nov 6	Philadelphia Eagles at Washington Redskins 8:00 p.m.	Sat, Dec 31	Denver Broncos at San Diego Chargers 4:00 p.m.
Mon, Nov 7	Indianapolis Colts at New England Patriots 8:00 p.m.	Sat, Dec 31	New York Giants at Oakland Raiders 7:45 p.m.
Sun, Nov 13	Cleveland Browns at Pittsburgh Steelers 8:00 p.m.	Sun, Jan 1	St. Louis Rams at Dallas Cowboys 8:00 p.m.
Mon, Nov 14	Dallas Cowboys at Philadelphia Eagles 8:00 p.m.	Sat, Jan 7	AFC and NFC Wildcard Playoff Games TBA
Sun, Nov 20	Kansas City Chiefs at Houston Texans 8:00 p.m.	Sun, Jan 8	AFC and NFC Wildcard Playoff Games TBA
Mon, Nov 21	Minnesota Vikings at Green Bay Packers 8:00 p.m.	Sat, Jan 14	AFC and NFC Divisional Playoff Games TBA
		Sun, Jan 15	AFC and NFC Divisional Playoff Games TBA
		Sun, Jan 22	AFC and NFC Conference Championships TBA
		Sun, Feb 5	Super Bowl XL (at Detroit) TBA
		Sun, Feb 12	Pro Bowl TBA

Problems, Problems?

We can't solve all your woes, but we can solve your DX News problems. Torn, soiled, partially-printed, MIA, or worst of all, delivered in a USPS plastic baggie? No need to return the copy - just end a postcard to NRC-2840 SE Illinois Ave. - Topeka, KS 66605, or e-mail to <plsBCBDXER@aol.com> and a replacement copy will be mailed free. Missing a back issue? Replacement copies from Vol. 56 on, to current NRC members only, are sent for the cost of first-class postage. You joined in the middle of the year and need to fill out a volume? Send \$1.00 per copy (postage paid). Quantities can be sent at the Media Mail rate.

See? No problem!

Target DX

R. J. Edmunds

753 Valley Rd. wb2bjh@nrcdxas.org

Blue Bell, PA 19422-2052

DX'ing 'smart', with shared tips and requests by NRC members

Vehicle Radio Noise

As with noises found in the radios in your DX shack, the same sorts of principles apply to noise heard in your car or truck radio. The first step is to determine what kind of noise is present, which is done by answering many of the same questions we looked at before. Is it constant or intermittent? If it's intermittent, does it seem to have a regular pattern or is it random? Does the noise affect only a portion of the band? Is the noise present only at night, or at twilight? But with a vehicle radio, we also need to know whether the noise is present when the vehicle is moving, stopped or both, as well as whether it is present when the engine is on or off.

If the noise is always present, even with the vehicle stationary and the engine off, then the source is either external or generated within the receiver itself. Generally, the latter is less likely, although not impossible. If the noise starts immediately after turning the key, but before starting the engine, the cause is likely somewhere in the electrical system, and often it's related to either electronic ignition or some sort of on-board computerized circuitry. If the noise starts when the engine does, then something which is activated by the engine is causing it.

In these cases, you can either choose to live with the problem, get a different vehicle, or consult with an authorized dealer or specialty vehicle electronics expert.

Fortunately, the most common sources of vehicle radio noise are more obvious and easier to remedy. A static-like noise which is present only when the vehicle is moving, and which seems to be more of a problem at higher speed may be the result of a loose, improperly grounded or improperly mounted whip antenna. Check to make sure that the plastic insulator that separates the base of the antenna from the vehicle's body is present and intact. Make certain that the whip's mounting hardware is tight. Check the antenna cable, particularly where it connects to the antenna, and where it makes any significant bends or goes through any tight spaces to see if the ground braid is broken or damaged. In many cases, it is often easier to replace the entire cable unless it has been routed within body sections, in which case you may need to engage a specialist to replace it.

Another common cause of a static-like noise observed only while in motion is static electricity. This often results from the installation of new tires, and may persist for several thousand miles. One option to try to eliminate it is to rotate the tires, which occasionally works. In other cases, static electricity noise can be reduced or removed by means of replacement or added grounding of the receiver. One additional note on this problem is that with the increase in the amount of fiberglass and other plastics used in the vehicle manufacturing process today, it is often more difficult to establish and maintain a good vehicle ground system. This also applies to the actual mounting of the radio itself, as the metal radio case must be physically grounded to the vehicle frame.

Often, it can be difficult to determine whether the noise is static electricity or a poor ground. One sure way to tell is to drive across an uneven surface. Static electricity noise will be interrupted by the bumps, whereas a ground problem will be enhanced by and timed with the bumps.

A noise which sounds like a combination of popping noises and static may be arising from the vehicle's sparkplugs. If the engine hasn't been tuned up some time and/or if the sparkplugs are more than the recommended number of miles old, a full tune-up may solve the problem. In more stubborn cases, it may be useful to investigate noise-suppressing plugs, although many newer vehicles cannot accept them - check with your owner's manual or the dealer on this. A whining noise which varies with the engine revolutions is ignition noise, which is usually found in older vehicles.

If all else fails, there are various filters available which can be installed in line between the antenna and the radio and also in the power line just before the radio. If the noise seems to be electrical in nature and generated by the engine or electrical system, the latter should be your first choice, while in the case of static electricity or other noise not being transmitted via the radio's power line, the former may be the better choice.

Sunrise-Sunset Maps

Monthly maps (12) showing the average monthly sunrise/sunset times for the U. S.; customize them for your location. \$3.25 for NRC members (\$4.50, non-members). Order from NRC Publications; NY residents, add sales tax.



Web Site for U. S. Station Signal Strengths - A Valuable Resource

By Mark Connelly, WA1ION

In a recent IRCA DX Monitor, a Web site "http://www.v-soft.com/ZipSignal/zip_answer.asp" was stated to be a way to get a strength listing of all AM & FM groundwave signals over 50 dBu level for a given US postal zip code. This is an excellent research tool, right on par with "dxtuners.com" in saving the DXer a lot of time as well as the cost of gasoline and airline tickets. The site only lists US stations (no Canada, Cuba, Mexico, etc.) The strength listings are of particular interest to DXers who wish to study propagation over seawater versus over land, to see how effective stations' directional patterns are, to evaluate the directivity and efficiency of their various receiving antennas, and to determine the sensitivity of portable and base-station receivers.

Signal levels are given in dBu and mV/m. The lowest level given, 50 dBu or 0.32 mV/m, is still a good strength signal by DXer standards, likely well over S-9 on a Beverage or amplified loop, but not necessarily suitable to an average listener possibly driving through areas with noisy power lines. Signals over 75 dBu or 5.6 mV/m would generally be considered local quality. Anything over 100 dBu or 31.6 mV/m is superlocal, able to penetrate into most steel-frame buildings. At Hull, MA (zip code 02045) the local fire-breathing dragon WBZ-1030 registers a hefty 131.4 dBu or 3735.3 mV/m, probably enough to peel the paint off the boats at the nearby marina.

By obtaining a listing of signal strengths that is reasonably accurate for a given location, the values can be used as a "transfer standard" to calibrate a receiver's S-meter readings with a given antenna. If the antenna is something well suited to field work, such as an active whip, S-meter readings taken on road trips can, to a fair degree of accuracy, be converted back to approximate dBu and mV/m values. A good calibration Excel table would be done at a number of frequencies since the efficiency of a receiving antenna can vary across the dial. Active whips are typically somewhat less sensitive at the low end (530 kHz) than at the high end (1700 kHz).

The closest post office here in the Pinehurst section of Billerica, MA is ZIP code 01866, located 0.6 miles / 1 km from my house. The readings for that zip are, therefore, quite accurate here. Here are the top ten AM's based upon daytime level. The number not in parentheses is dBu, the number in parentheses is mV/m.

1. WRKO-680 day: 115.1 (569.62); night: 115.0 (564.53)
2. WEEI-850 day: 84.5 (16.83); night: 83.8 (15.54)
3. WWZN-1510 day: 83.1 (14.27); night: 73.9 (4.97)
4. WEZE-590 day & night: 80.0 (10.01)
5. WBZ-1030 day & night: 78.3 (8.24)
6. WBIX-1060 day: 77.3 (7.33); night 58.4 (0.83)
7. WTTT-1150 day: 77.0 (7.07); night: 63.7 (1.54)
8. WRCA-1330 day & night: 73.1 (4.54)
9. WROL-950 day: 72.1 (4.01)
10. WILD-1090 day: 72.0 (4.00)

Another station worth mentioning is WCAP-980. At night it turns on the directional-array soup and goes from a 68.4 dBu day value up to 77.1 dBu after dark.

From the above list you can see that WWZN, WBIX, and WTTT take quite a hit going from day to night configurations. Of these, WBIX is the only one which actually reduces power. In the Truro, MA listing WWZN goes up by 3.3 dB at night. It's not surprising that WWZN is one of the strongest stateside signals into North Africa. But go west past Framingham, MA and it's totally useless at night.

There are a couple of other Web sites that I use in conjunction with the signal-strength finder site. One finds the distance between two zip codes. In the following example, I checked the distance from Atlantic City, NJ 08401 to Chilmark (Martha's Vineyard), MA 02535.

"<http://www.zipfind.net/Results.aspx?TYPE=DISTANCE&ZIP1=08401&ZIP2=02535>"

Result was 238.68 miles, equal to 384 km.

The US Postal Service "<http://zip4.usps.com/zip4/welcome.jsp>" page can find a zip code based on city + state, or address + city + state.

The site shows what DXers already know in terms of signals propagating much farther over salt water than land for a given amount of signal strength reduction. Examples below clearly illustrate this. All stations selected are non-directional for fair evaluation purposes.

Need more information about AM DX'ing?

Mail a First-Class stamp to NRC Publications - P. O. Box 164 - Mannsville, NY 13661-0164 and ask for the NRC Publications Catalog.

Case 1: WJDA-1300 Quincy, MA (1 kW)
At Billerica (Pinehurst), MA 01866
Distance 23 miles / 37.0 km (land)
57.7 dBu, 0.43 mV/m

At Bar Harbor, ME 04609
Distance 203 miles / 326.6 km (water)
57.8 dBu, 0.44 mV/m

Distance ratio 8.8
About the same level at each site.

Case 2: WMID-1340 Atlantic City, NJ (1 kW)
At Port Elizabeth, NJ 08348
Distance 29 miles / 46.7 km (land)
50.6 dBu, 0.34 mV/m

At Chilmark, Martha's Vineyard, MA 02535
Distance 239 miles / 384.6 km (water)
50.5 dBu, 0.33 mV/m

Distance ratio 8.24
About the same level at each site.

Case 3: WCBS-880 New York (City Is.), NY (50

kW)

At Deer Park, LI, NY 11729
Distance 25 miles / 40.2 km (land)
71.2 dBu, 3.64 mV/m

At Falmouth, Cape Cod, MA 02540
Distance 172 miles / 276.7 km (mostly water)
74.5 dBu, 5.33 mV/m

Distance ratio 6.88
WCBS is 3.3 dB stronger at the more distant site.

Case 4: WLYN-1360 Lynn, MA (1 kW)
At Billerica (Pinehurst), MA 01866
Distance 14 miles / 22.5 km (land)
58.0 dBu, 0.80 mV/m

At Harwich, Cape Cod, MA 02645
Distance 70 miles / 112.6 km (partial water)
58.7 dBu, 0.87 mV/m

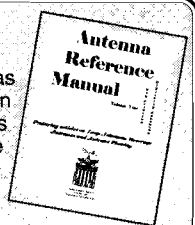
Distance ratio 5.0
WLYN is slightly stronger at the more distant site.

The above cases show dramatic differences in paths over land as compared to over salt water. It must be stressed that the differences can be significantly greater than shown because the web page just gives strengths over the average extent of a postal zip code. These values more often typify the central business district of a given town rather than an optimum beachfront site that would show a much more exaggerated signal enhancement. Much of what applies to groundwave also relates to low-angle skip such as would be experienced with Transatlantic signals arriving before, during, and up to an hour after local receiving-site sunset. The effect is very obvious when stations such as Morocco-612 can "bulldoze" WGIR-610 NH on an ordinary car radio at sunset at Granite Pier in Rockport, MA. If you add seriously directional receiving antennas such as a Kaz, Flag, Beverage, or phased verticals to an already-directional location, then the DX really gets interesting as many of us know.

Antenna Reference Manual Volume 2

8th Printing Digitally Enhanced and Updated for 2005!

This book is a compilation of numerous articles on the subject of antennas for medium wave DX'ers, originally published between 1974 and 1981 in *DX News*. Some articles were formerly available as reprints. Includes articles on air-core and ferrite core loops, antenna tuners for longwire and Beverage antennas and phasing units for use with Beverage antennas and longwires. 8 1/2" X 11" bound book format. Order "ARM-2" from NRC Publications; NY residents, please add sales tax.



New! IRCA Mexican Log, 10th Edition, Winter 2005

The 10th Edition of the IRCA Mexican Log lists all AM stations in Mexico by frequency, including call letters, state, city, day/night power, slogans, schedule in UTC/GMT, formats, networks and notes. The call letter index gives call, frequency, city and state. The city index (listed by state, then city) includes frequency, call and day/night power. The transmitter site index (listed by state, then city) tabulates the latitude and longitude of transmitter sites). This is an indispensable reference for anyone who hears Mexican radio stations. Size is 8 1/2" x 11" and three hole punched for easy binding. Prices: NRC/IRCA members - \$9.50 (US/Canada/Mexico/seamail), \$12.00 (rest of the Americas, Europe/Asia airmail), \$12.50 (Australia/New Zealand airmail). Non-members: add \$2.00 to the above prices.

To order the IRCA Mexican Log from the IRCA Bookstore, send the correct amount in U. S. funds payable to Phil Bytheway to:

IRCA Bookstore - 9705 Mary Ave. NW - Seattle, WA 98117-2334 or use PayPal to <<fokker_db@yahoo.com>>; add \$.50 for PayPal service charges.

Pre-Amp Peregrinations Adventures with RF Pre-Amps by Advanced Receiver Research and DX Engineering

John H. Bryant and Mark Connelly, WA1ION

JOHN'S EXPERIENCE

For many years, I have been ambivalent about using RF preamplifiers in my receiving chain ... I have felt that, most of the time, they only amplify both the noise and the signal equally, accomplishing nothing but generating more movement on my S-meter. However, in recent years, my ideas have been changing. I was first introduced to modern pre-amps by Don Nelson, when he used the highly regarded preamps from Advanced Receiver Research (AR2) to more than overcome the inherent losses in our 8-way antenna splitters at the Grayland DXpedition site.

When I began experimenting with relatively small-sized flags and pennant antennas, I found that having some pre-amplification often resulted in a better signal, with more recovered audio. Naturally, I adopted the AR2 unit <http://www.advancedreceiver.com/page5.html>. (Special Frequency Range, \$79.95 USD) Truth be told, I found it cumbersome to insert the AR2 unit in my receiving outfit... For DC power, this pre-amp required hardwiring rather than the normal coaxial power plug. Further, and more importantly, the AR2 preamp had neither a power switch nor a bypass relay... It was either in the circuit or it was out... taking a major operation of lead-in switching just to add or subtract it from incoming signals.

I decided that what I really wanted was a pre-amp of the quality of the AR2 unit that could stay in the receiver chain all the time, but which I could invoke or remove from the actual receiving circuit with the flip of a switch. Truth be known, I would rather DX without a pre-amp, but when the signal is in the mud or fading away at local dawn, I wanted to be able to flip a switch and "kick it in the butt" with 10-20 dB of preamplification. If that kick helped, I'd leave it in the line; if not, it would come right back out. I finally went so far as to put one of the AR2 amps in a larger cast aluminum box along with a bypass relay, LED power indicator, power switch and coaxial power plug. That amounted to about \$30.00 of additional parts and around 6 to 8 hours of bench time, but it worked like a charm!!! I was quickly addicted and found the AR2 pre-amp more useful than I expected. I even found that it would improve signal to noise ratios on my beverage antennas, but only at band fade.

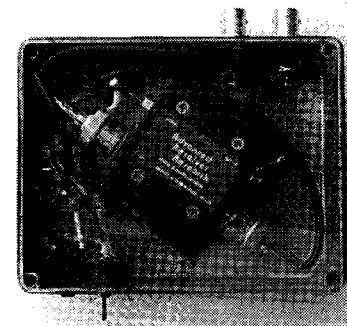
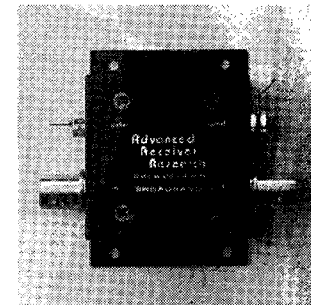
As luck would have it, when I returned to my favorite DXpedition haunts in the Northwest this spring, I was horrified to find that the AR2 pre-amp was deadlier than the proverbial doornail. I'm not quite sure what happened, but I doubt that it was the fault of the AR2 unit; the ones at Grayland have been performing like Trojans for years, with nary a single failure. Unfortunately, my long-time spare AR2 preamp is sitting on my work bench at our other home in Oklahoma, 2250 miles to our southeast!

Recently, I noticed that Mark Connelly, well-known designer of homebrew phasers and pre-amps, had favorably mentioned a new commercial unit in several venues: the RPA-1 by DX Engineering. If Mark liked it, I thought that I would give it a look on the web: <http://www.dxengineering.com/Parts.asp?ID=210&PLID=107&SecID=32&DeptID=12&PartNo=DxE-RPA-1>

I was very impressed! The description of the amp started out:

This is the best HF low-noise amplifier available. The RPA-1 is optimized for 0.3-35 MHz operating range. Its push-pull amplifier design and robust components enable it to withstand high signal levels and operate when you need it most.

Wow! Making that kind of statement in the small community of radio enthusiasts means one of two things. Either a) the company is totally unscrupulous or b) the gear is really great!



As I read further, I continued to be impressed. Beside the push-pull design and an internal by-pass relay, the amp came with an extensive manual that also outlined several easy modifications which would allow the user to *reduce* the gain in stages, if necessary for a particular application. Unfortunately, since the RPA-1 is designed for mounting either at the operator's position or at the feed point of the antenna, the unit did not come with either a power switch or an LED power indicator. Also, since the unit was apparently intended for those radio amateurs who use 75 ohm feed line, the antenna input and output ports were F-type connectors, supplemented by paralleled RCA jacks (!!!) Like all communications receivers and most listener-DXers, long ago, I committed to 50 ohm feed line and, in my case, BNC-connectors.

Happily, I knew that the hole-sizes required for chassis-mount F and BNC connectors were identical. So too, the hole sizes for the supplied RCA jacks, my mini-toggle switches and many LED holders. So, it looked like I could easily modify the RPA-1 to fit my exact needs. Despite the price of just over \$100 USD, I decided to order two of the RPA-1s. I could modify one and then A/B test the two of them to try to make sure that my modifications hadn't degraded the performance noticeably.

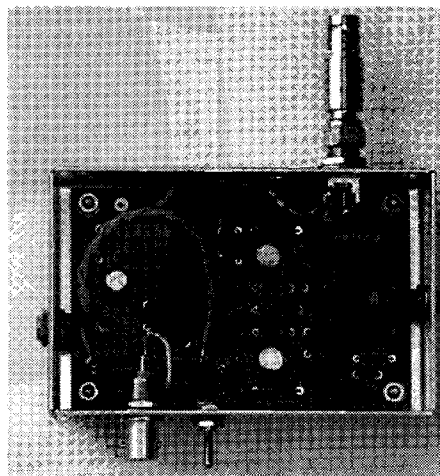
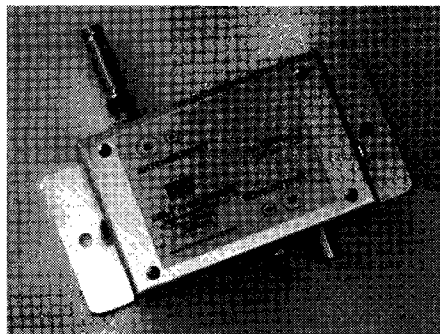
Unfortunately, I learned as I began the modifications that the two heat sinks on the large push-pull transistors and the length of the LED power indicator housing that I had on hand conflicted with each other, so I could not use either of the existing "holes for the LED. One of the quarter-inch RCA-jack holes was used, as planned, for the mini-toggle switch, and I drilled a new hole in the end of the aluminum housing for the LED power indicator.

The electrical modifications were minor and very easy, though I had to be cautious when waving a hot soldering iron around in such tight quarters. The only real electrical change was remove the lead of the copper-colored RF choke from the incoming +12 VDC on the back side of the power jack; the SPST mini-toggle switch was inserted in the circuit at that point (the twisted pair of yellow wires.) When the switch is open, no power flows to the amp and the relay passes the signal through, unamplified; with the switch closed, the circuit is energized. The LED that I used was a Radio Shack unit that comes with an integral resistor to control the current properly for use in 12 volt circuits. It was connected between the switched terminal of the new power switch and chassis ground.

The two accompanying photos of the RPA-1 are actually of my second unit, partly modified, after I had completed the A/B testing of one modified vs. one unmodified RPA-1 (a resounding success.) The Antenna Input port (upper side in both photos) is the factory-supplied F-connector with a Type-F to BNC Adapter attached. On the lower side of both photos, you will note the new BNC connector. Possibly you can see the new power switch and its bright yellow wiring and the green LED (red and black wires.) The red rectangle is the bypass relay and the two bright circles on the right are the push-pull amplifier transistors. You may just be able to discern the black heat sinks on these two transistors, as well.

IN USE

The only receiver that I have available to me right now is the WiNRADIO 303EP "black box" receiver. It has both an excellent S-meter marked in dBm and an active Spectrum Scope which can be read in dB. Those two instruments clearly indicate that the RPA-1, both modified and stock, provides at least the 16 dB boost stated in the manufacturer's specs. I don't have the sophisticated instruments needed to test for the noise added to a circuit by pre-amps. However, I have listened carefully to both strong and weak, threshold-level signals while flipping the RPA-1 in and out of the circuit. I can't hear



any added noise.

The two illustrations on the right are parts of screen shots of the WiNRADiO 303EP while tuned to Radio Madang in Papua New Guinea one recent dawn. The horizontal blue lines and the words "Before" and "After" were added by me later. The noise level in the unamplified (BEFORE) example is -67 dB, and it rises to about -51 dB with the amplifier turned on, a 16 dB improvement. The same flip of the switch raised the signal strength from -47 dB to -17 dB. I rush to add that some of the increase in the noise figure was due to a momentary surge in propagation conditions. The improvement in the amount of signal cresting above the noise can also, partly, be attributed to that source. However, I have yet to tune a weak signal on this antenna system that has not shown a very noticeable improvement in the quality and intelligibility of the audio. This is true as I tune either MW or the Tropical Bands.

I look forward to testing the RPA-1 coupled to my 65' x 16' portable KAZ during a future DXpedition to Grayland. I doubt that the arrangement will outperform our much-vaunted Beverages, but it might get close. In the meantime, I'm darn sure glad that I bought two of these beauties!

MARK'S EXPERIENCE:

Since I often use my RPA-1 at a position closer to the antenna (away from the operating bench), I made a very simple modification that lets me send 12 VDC up the coaxial line when I want the amplifier on, and no DC up the line when I want bypass. DC is fed onto the coaxial line at the other end: the cable's connection at the DXP-6 phasing unit ("<http://chowdanet.com/mark/WEB2005A/DXP-6.ZIP>").

I took a 1.5 mH inductor and wired it from the "RCVR OUTPUT" F connector to the DC power input connector. The inductor used was Bourns SDR1005-152J, Mouser stock number 652-SDR1005-152J. It's a small surface mount piece resembling a miniature hockey puck. I used short pieces of insulated wire to connect the inductor (choke) between the normal DC-in jack and the "RCVR OUTPUT" F jack. I cut the direct connection between the "RCVR OUTPUT" F jack and the otherwise redundant adjacent RCA jack. I put a 0.1 uF capacitor from the F to RCA jack so that the RCA "RCVR OUTPUT" jack can be a pure RF connection not carrying DC. This would be used when power is being applied at the normal DC jack of the RPA-1.

The inductor allows DC on the cable to power the amplifier even when it is being fed from an operating position possibly hundreds of feet away. I usually use the amplifier with my car-rooftop antennas on beach DXpeditions or with my Flag antenna at home.

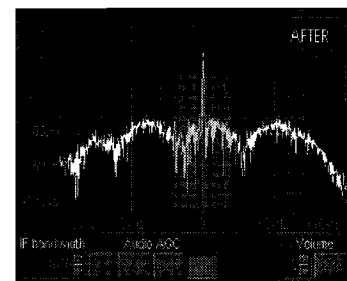
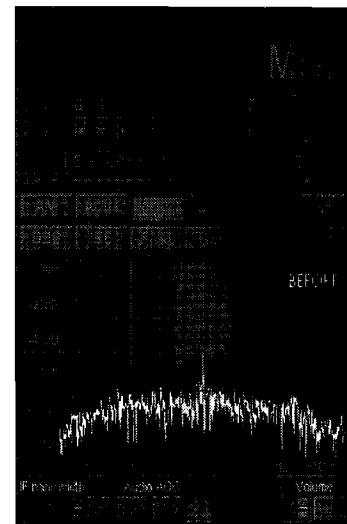
I just use BNC to F adaptors at both the ANTENNA INPUT and RCVR OUTPUT jacks. If I power the RPA-1 at its own DC input jack, rather than up the coax, I use a BNC to RCA jack for connecting to the (RCA) RCVR OUTPUT jack that is now capacitively coupled to the (F) RCVR OUTPUT jack.

Chris Black (N1CP) also has an RPA-1 that he keeps near his receiver. I suggested that he go to the hardware store and get one of those inline switches typically used on lamp cords. This switch is now on the cord going from the wall wart to his RPA-1 DC input. No alteration of his RPA-1 was required for the way he uses it in his shack.

I should also note, although the low end stated for the RPA-1 is given as 300 kHz, it can still provide usable gain lower in frequency. With the Flag antenna at Chris Black's QTH in S. Yarmouth, I got about 8 dB of gain at 150 kHz, 10 or 11 dB at 200 kHz, and better than 12 dB at 250 kHz. Usage, therefore, is still possible for the typical frequency range of long wave broadcasters and non-directional beacons.

A CAUTION

Internal modifications to the RPA-1 like those noted in the first section of the article will likely void whatever warranty that DX Engineering offers with their fine equipment. If you plan to modify an RPA-1, it would likely be very prudent to run the amp under power for 12 or 24 hours first. Most early failures in solid state gear occur in those first few hours. Should one of those rare early failures occur, having the RPA-1 fail before modifying it will let you return the unit to DX Engineering for warranty work.



DXAS - Going Strong for Twenty Years

It was April of 1985 when Fred Vobbe had an idea. He created the National Radio Club's "DX Audio Service", a magazine on cassette tapes that talks about listening to the radio.

The National Radio Club traces its roots back to 1933 when one of the popular activities was listening to the radio at night and then, the following morning, comparing notes with friends about what distant stations had been heard on their home radios. The club has continued without interruption and is now in its 72nd year. A weekly magazine reports on what is being heard as reported by club members all across the country.

But in 1985, Fred was talking with several blind radio enthusiasts when the thought struck him that the weekly printed magazine was of little or no use to them. So, along with a friend and some quality sound equipment, he produced an audio cassette tape covering much of the information in that printed magazine. In fact, on one side of that first tape, they were able to provide listeners with a comprehensive history of a famous Chicago music station, WLS, complete with many of the early broadcast highlights from that station.

The results were an immediate smash hit. Fred was able to find a way to produce a program fully as professional as on any metropolitan radio station and then found a way to reproduce cassette tapes at high speed.

Orders came in at a surprising rate as word spread and soon reached 200 subscribers. To keep the magazine fresh and with a variety of voices and perspectives, Fred put out a call for more broadcasters, present and past, to volunteer their time and knowledge to Fred's project.

His call was successful. Each month, the first 10-15 minutes is produced by a fellow in Fort Worth, Texas, columnist Bill Hale. Bill scans federal releases on the Internet and other broadcasting websites daily. He then reads all the changes that stations are making and sends his voice to Fred via the Internet, much the way music is now distributed using this new technology. In the course of a single year, there are over 500 changes in broadcast stations from call letters to formats and power levels.

Capitalizing on being able to provide real sounds of radio broadcasts, the next columnist on each month's DX Audio Service program is John Bowker of Sun City Center, Florida. John and his wife retired 15 years ago and set out in their otorhome to make recordings of every AM broadcast station in the country. Over an 8-year span they were able to capture the "station breaks" from over 5,000 of those stations and subscribers to this sound magazine now hear selected cuts from that collection each month.

Mark Durenberger from Edina Minnesota produces a quarter hour of sounds and interviews with people responsible for operating stations that broadcast on "clear channels".

In 1941 all the governments in North America agreed to a plan that would minimize interference between their key broadcast stations. Some of the dial positions are restricted to just a very few stations, most with very high operating powers. Mark focuses his attention on those dial positions and talks with many of the personnel about their operations and early days of radio.

When radio enthusiasts get together, one of the first questions asked is "what is radio like in your town?" Phil Wayne, of Marion Ohio, solicits short samples of stations in the home town of the club's subscribers and, for 15 minutes, the yisteners can imagine sitting in one city or another each month, tuning from station to station to get an idea of what the radio dial holds for their residents.

Phil has also produced reviews of radio that looks at radio's rich past. Phil's recordings will take the listener back to Los Angeles in 1966, or to Chicago in 1972. On a recent issue, Phil profiled a D.J. by the name of Dr. Don Rose. Don was a famous D.J. that most radio listeners knew about. After his death last month, Phil thought it would be appropriate to profile him on the May 2005 issue.

Many people listen to radio for sports, usually for a specific team. Columnist Ken Onyschuk of Joliet, Illinois, hosts the Sports Corner. The listener hears a list of stations carrying teams, and also information Ken is able to acquire about the play-by-play announcers. When available, Ken will read the ratings of stations in a city just to keep track of which stations are making a major contribution to the city's life style.

One of the popular segments of the monthly sound magazine is the portion devoted to phone calls from the subscribers themselves. Their calls to a special telephone number are recorded and played back the following month as part of the audio magazine so their questions, the listeners.

Fred is the Senior Editor and has the responsibility of keeping the overall naming in line plus providing an editorial view of how radio broadcasting is developing. The changes in program content and new technical protocols don't escape Fred's comments. He is in a unique position through his responsibilities at NBC Lima to keep up with the latest in technology.

Through his contacts, Fred has been able to sit with leading names in radio over the years. Just before Wolfman Jack passed away, he chatted with Fred for the better part of an hour about his career and background. Dave Graupner was nother interview Fred found fascinating. Dave's company, TM/Century, produces many of those musical jingles that stations use to identify themselves, and others

that put tunes in the heads of listeners for their advertising clients. The idea of building a company with a business plan of singing the call letters of radio stations made for a memorable program segment.

Another of Fred's favorite interviews was with Leonard Kahn. "Leonard has probably done more to advance the quality and dependability of AM radio than any Nther person", Vobbe said. "Leonard Kahn is one of those people with an understanding of how radio works, end to end. The stations that employ his equipment designs are often some of the best technically sounding stations in the nation."

Along with the DX Audio Service, Vobbe also produces and edits "All Radio Magazine". This is a supplement to the DX Audio Service which contains long articles, as well as multiple cassettes to deal with the large amount of news and information.

Coming up in future editions of All Radio is a comprehensive look at what makes Quality in AM Radio. Also, a detailed technical discussion about the impact of digital hybrid transmissions in the AM broadcast band.

"What is remarkable about our organization is that we're all volunteers. Nobody is paid for their services, and nobody gets anything other than a pat on the back for a job well done", said Vobbe. "Every editor contributes a column each month. It's a wonderful organization of dedicated people whose only desire is o inform, educate, and entertain radio listeners."

Membership in the club costs \$28.00 per year. The membership fee pays for the First Class postage, tapes, and labels. Samples of the tapes are available for \$3.00. Samples of the printed magazine, DX News, are available for \$1.00.

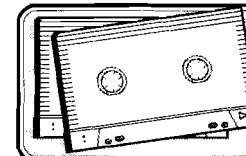
Fred, who has worked at NBC Lima since 1985, edits and produces the DX Audio Service in his home studio. Fred built his home studio in 1977, and has made radio and TV commercials, DJ liners, announcements for telephone systems, and orporate presentations.

Locally in Lima listeners hear Vobbe's voice on the commercials heard on radio and television such as Kewpee Hamburgers, the sponsor mentions before the weather on the news.

"It's interesting when I take a trip across the state or the nation. I will often be listening to the radio when I hear myself", Vobbe said. "My kids often point out that I'm on the radio quicker than I realize it. My son will often smile, point to the radio, and say 'who is that guy'."

Vobbe produces commercials and announcements on a digital desktop audio workstation in his home. "The digital audio editing revolution has been a blessing for someone like myself that does audio production. It's allowed me to be more creative, more precise. We've made a lot of advances since the old days of tape", Vobbe says.

Using the Internet, columns are delivered to Vobbe electronically, in CD audio quality. "We use a technology called MP3. It allows the individual editors to lo their columns at their homes, and E-mail the final production to me. I place them in my desktop audio workstation, and tie them together with the jingles and other production. When done, we have over an hour and a half audio production that goes to duplication and mailing. Each issue is unique, and a snapshot of what is happening in radio during the past thirty days", Vobbe says.



DXAS back issues on audio

cassettes: \$3.00 each; specify month and year.

Order from NRC Publications - Box 164 - Mannsville, NY 13661. NY residents, please add sales tax.



ALL RADIO Vol 2 is now available from NRC's Publication Center. This two-cassette tape set features the following: George Gimarc and Pat Reeder talk about their book, "Hollywood HI-FI!", (March 6, 1997) and play examples of songs that just don't cut it. How many of you remember KLIF-1190 in Dallas, Texas? Steve Eberhardt, owner of <historyofklif.com> tells us why this station was an icon of radio, due in part to Gordon McLendon, radio programming innovator and sportscaster. Following Steve is NRC member Ben Dangerfield talking about what it was like to DX during World War II. Bob Savage, owner of WYSL, worked at stations like WIBG, WKBW, and CLKW; Bob talks about his career and radio. Finally, the business meetings from the 2003 convention in Dallas and 2004 convention in Rochester NY are featured. This two-cassette package comes in a dual cassette case, @ \$6.00 post paid US (1st class mail). Other areas of the world, and persons requiring special delivery, contact the Pub Center at 315-387-3583, krazyken@ccenet.net, or P.O. Box 164 - Mannsville NY 13661 USA. Order Item ART-2. U.S.A Price \$5.00; Canada \$7.00; Overseas \$9.00. Order from NRC Publications - Box 164 - Mannsville, NY 13661. NY residents, please add sales tax.

Geomagnetic Summary

Phil Bytheway phil-bytheway@teknologic.net
9705 Mary NW
Seattle, WA 98117-2334

High "A" values indicate possible auroral conditions

Geomagnetic Summary March 16 2005 through April 26, 2005

SWF - Space Weather Forecast pca - polar cap absorption
maf - major flare SWT - Space Weather today
mas - major storm spe - satellite proton event
mis - minor storm ss - severe storm

Tabulated from email status daily.

Date	Flux	A	K	Space	Wx Today	Space Wx Forecast	Au
3/16	108	4	1		no storms	no storms	2
17	105	6	1		no storms	no storms	7
18	101	12	2		no storms	no storms	5
19	96	8	3		no storms	no storms	9
20	93	14	1		minor	no storms	5
21	89	8	3		no storms	no storms	8
22	90	10	2		no storms	no storms	6
23	87	5	2		no storms	no storms	5
24	88	6	3		no storms	no storms	7
25	87	5	1		no storms	no storms	4
26	82	14	2		minor	no storms	8
27	78	18	2		no storms	no storms	6
28	78	x	0		x	x	x
29	80	12	1		no storms	no storms	4
30	79	4	1		no storms	no storms	4
3/31	78	10	1		no storms	no storms	6
4/ 1	77	7	2		no storms	no storms	7
2	78	7	1		no storms	no storms	5
3	80	3	1		no storms	no storms	4
4	81	3	2		no storms	no storms	8
5	85	16	4		no storms	no storms	10
6	88	35	3		strong	no storms	7
7	x	x	x		x	x	x
8	x	x	x		x	x	x
9	x	x	x		x	x	x
10	x	x	x		x	x	x
11	x	x	x		x	x	x
12	88	8	2		x	x	x
13	85	30	4		no storms	no storms	8
14	84	27	4		minor	minor	8
15	85	24	3		minor	no storms	4
16	85	12	3		x	x	x
17	83	7	2		no storms	no storms	6
18	84	8	2		no storms	no storms	3
19	81	12	3		no storms	no storms	5
20	78	10	2		no storms	no storms	4
21	77	19	2		minor	no storms	8
22	x	x	x		x	x	x
23	77	8	4		x	x	x
24	79	12	3		no storms	no storms	7
25	82	10	2		no storms	no storms	6
26	86	11	3		no storms	no storms	6

(Continued from page one)

help with e-DXN

All of us have contact information on the back page of *DX News*. You'll receive a response, but please don't expect it immediately! The Board members all have family and some of us are still shy of retirement!

73 and Good DX: Wayne

e-DXN: And Now, Triplets! ... Yes, as Wayne indicated, e-DXN is up and running and joins our other two publications, *DX News* and *DX Audio Service*. We announced it at the Convention in Kulpsville, and around 50 NRC/DXAS members, and others, have already taken advantage of the free registration we're offering through December

All you have to do is to navigate to www.e-dxn.com, read and agree to the rules, and then register under your real name. Instantly, you'll be able to take advantage of the entire interactive site, which you find includes nearly all of the columns from DXN's from last March to this issue, plus the QSO and QRM Forum rooms and even User Groups.

My thousand words would be worth far less than a picture of e-DXN; in short, you have to access the site to understand fully what it offers. But let me provide a few examples.

The August (#29) DDXD is on line. You read it and see that Our Man in Hawaii, has listed an unID on 1140: "7/25 0341 SS Woman talk on top of KHTK, Fair." It just so happens that you heard this program and are able to ID the station, so you click on "reply" and post details of what you heard. Instantly, this unID becomes an ID'ed station, and although the editor most likely will reprint your logging in the next DXN, you don't have to wait to find out what Dale's unID really is.

In the QRM Room, I started a thread and poll in which you can select a choice as well as post more comments about convention times. Got a question about DX'ing? Post it in the QRM Room and get answers from other DX'ers.

FCC actions which were too lengthy to include in DXN are now posted on e-DXN, and text from some DXAS features are now available, as well as a link to downloadable MP3's of DXAS features.

Members of e-DXN can create avatars which appear next to each of their posts. What would you guess Bruce Conti used as his avatar? Why is Fred's avatar moving? Why does my avatar weigh so much? Visit e-DXN and see for yourself.

As Wayne stated, e-DXN will NOT take the place of DXN. In fact, some or all non-copyrighted postings in e-DXN might eventually find their way into print ... but there will be a few columns (DDXA, IDXA, Geomagnetic Indices) which, being in columnar text, simply do not lend themselves to posting, because the site software (phpBB) does not support tabs nor multiple spaces. Also, DX'er's Notebook will not be repeated in e-DXN and will be a DXN-only column, as the info in this column will be extracted from on-line postings. Finally, a URL link is provided for GYDXA in the forums.

Cost? Cheap! It's free until December 31. After that date, it will cost you an additional \$5.00 if you're already a DXN/DXAS subscriber (yes, blind subscribers can access e-DXN once they're registered). If you're not currently a DXN/DXAS subscriber, it will cost \$15.00. (We will not pro-rate subscriptions nor offer refunds to allow you to change from your current sub to e-DXN-only; sorry, but that would be a logistical nightmare for me.) I should add that any paid subscriber to e-DXN will become a full member of the National Radio Club and will enjoy the same privileges as a DXAS or DXN subscriber. (Please use only your real name, or at least a nickname, so that we can

identify who you are, when you register for e-DXN. No ham calls, please.)

We have had a handful of requests for a .pdf-only version of DXN, and while it's technically easily possible, we don't have access to the space nor bandwidth online at the moment to be able to offer a .pdf version of DXN. Those issues should be resolved in the near future, and after we've had a chance to work out the wrinkles in e-DXN, so stay tuned.

Finally, the unofficial NRC listserv will cease to exist at the end of September, so we'd invite members of the listserv to start using the QSO Room (radio-only topics) and the QRM Room (other topics). And if you miss that full e-mail box ... you can set your preferences to be notified or NOT be notified via e-mail when new posts are made on the e-DXN site, including short-notice DX tests.

e-DXN may not be exactly what you expected when you first heard rumors about an on-line version of DXN, and frankly, it wasn't exactly what Fred Vobbe, Phil Bytheway, and I had in mind some three years ago when we first started working on an electronic version of DXN. But it is much more, and I believe it places the NRC squarely into the 21st century in its offerings to club members. If you're still stuck in the 20th century (e. g., computerless), DXN will continue to be your club publication of choice, and we will continue to print it as long as there are those who subscribe to it (and we are well aware that the list of DXN-only subscribers will take a hit as wired members select e-DXN instead; the mailing cost of DXN will go up once the subscriber list dips below 500 and we lose our postage discount, but we're gambling that we'll break even on expenses).

In short, try it to see if you like it. You have until December 31 to access e-DXN for free, and we hope you'll enter the site often and decide to subscribe.

Publications ... Steve Whitt of the MWC is offering a CD which includes a listing of every MW/LW transmitter in the UK and Ireland operating below 1700 kHz, including power, location, description of its pattern, etc., PLUS scans of QSL cards, photos of transmitter sites, and MUCH other info. You can order the CD directly from Steve Whittle - Landsvale, High Catton, York YO41 1EH, England, @ US \$11.00/10 Euro or £5 sterling (notes); or via PayPal (ask for details and more info by contacting Steve at <<editor@mwcircle.org>>).

Scott Fybush's popular full-color Tower Site 2006 calendar is now available @ \$16 (\$17.28 for NY residents, including tax), check or money order, from Scott Fybush - 92 Bonnie Brae Ave - Rochester, NY 14618, or via credit card at www.fybush.com.

K9AY ... Steve also sent word that Andy Ikin is going to resume at least limited production of his K9AY antenna, with improvements. For more info, you can e-mail Andy at <<andy@wellbrook.uk.com>> or access <<www.wellbrook.uk.com>>.

Musings

of the Members

Thoughts from NRC members ... the opinions expressed in this column are those of the individual writer and do not necessarily reflect those of the editors, publishers, or the National Radio Club, Inc.

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P. O. Box 3111
Scranton, PA 18505-0111

Times are local per Muse; submit double-spaced only.

And here we got with another exciting season of DX and the Musings Of The Members column! We welcome you reports and look forward to hearing about your DX doings, things that may be of use to other members, but we don't accept reports on snacks eaten while listening (there has to be a limit!). Thanks, and we look forward to hearing from YOU!

Bill Dvorak - 501 Algoma Street - Madison WI 53704-4812 - dxerak@aol.com

On Saturday, August 20, it was my honor to host the 12th Annual Madison-Milwaukee Get-together for DXers and Radio Enthusiasts. I am very pleased to report that this year's event, held at Burrows Park in Madison WI, was a rousing success! The skies were sunny and the temperature topped off at a near-perfect 84 degrees (a gusty wind was problematic but did not really spoil anything). The scenic backdrop (Lake Mendota), picturesque shelter and spaciousness yet coziness of the park were universally acclaimed. Above all, the DX talk and camaraderie, the exchange of ideas, the old friendships renewed and the new friendships made, in other words, those elements that make an event such as this an enjoyable experience, were there for all to enjoy. And, so were the people! This year's attendance was a record 41 DXers from 10 states! This turnout easily topped last year's record of 29. Attendees represented a broad range of DX hobby interests, experience, and expertise. Demonstrations during the day included a Winradio WR-G313i receiver brought by Craig Menning, a prototype AM radio built and displayed by Pete Gianakopoulos, and an IBOC HD radio brought by Kent Winrich. For the latter demonstration, local WORT 89.9 provided an FM signal to demonstrate, but WBBM 780, the only easily heard AM station currently running IBOC, had its HD signal turned off for the day. All three demonstrations attracted a great deal of interest. Following the afternoon session, the attendees went on to dinner at the Esquire Club, one of Madison's oldest family owned restaurants. This was the fifth time that our Get-together dinner was held there, and the food, service and atmosphere continued to more than meet our needs. It was at the restaurant that we drew for door prizes. We are grateful to Universal Radio, Clear Channel Madison, Clear Channel Milwaukee, and Scott Fybush for providing them. The evening session was held at Nina's and my house, where activities and DX talk continued until midnight. It was there that we cut and served the annual Get-together cake, lovingly baked and decorated by my wife Nina. This year's cake was decorated like an open egg carton. On each of the 12 "eggs" was the number and date of a past (or present) get-together. Below this was the inscription, "It Just 'Dozen' Get Better than This!" And, it dozen!! It was great to see so many of my fellow NRC/DXAS members at the GTG! Thirteen members from six states were in attendance, and I thank each one: Scott Fybush (NY), Neil Kazaross (IL), Lester Kleidon (IL), Dave Legler (MN), Peggy Leifert (IL), Kevin McGill (WI), Frank Merrill (IL), John Rieger (WI), John Sampson (MN), Glen Schroeder (WI), Ernie Wesolowski (NE), Garrett Wollman (MA), and of course yours truly. We also did our part to promote the NRC, handing out sample DX News copies (thanks, Paul Swearingen) (NP! -pls.) and an NRC fact sheet. The 13th Annual Madison-Milwaukee Get-together for DXers and Radio Enthusiasts will be held on Saturday August 19, 2006. The event returns to the Milwaukee area, with Tim Noonan as host. For more information, please contact Tim at < dxing2@aol.com <mailto:dxing2@aol.com> >. We hope to see you next year!

J E Lewis - 1028 W. 41 Place Apt. #3 - Kansas City, MO 64111-4090

It was a bad omen when, while driving from Fayetteville, AR to Kansas City. On 7/5, I didn't hear one of my favorite stations, KTOZ-1060 Springfield, MO. On 7/10, the *Kansas City Star* reported that the majority owners tried to auction it off online but had no takers. Minimum bid was \$300,000, and as of 7/6, there were no bids despite about 35 responses. The station's general manager apparently didn't know about this and said he planned to resign. This was a station with real DJ's which played music which those of us over 55 really enjoyed. It was with great sadness that I learned we will probably be losing KTOZ.

John Malicky - 995 Shadycrest Road - Pittsburgh, PA 15216-3046

NRC Kulpville 2005 was another enjoyable, entertaining and informative convention! A complete report follows soon in DX NEWS. The 2005 Convention was highlighted by a tour of WFIL-560/WNTP-

990 by NRC'er & CE RENE TETRO on Saturday. After the Sunday night banquet, David McCork, CE and owner of "Part 15" station WNAR-1620 spoke about his operation and IBOC Radio. Thanks to our Musings editor DAVE SCHMIDT for a fine convention, his 3rd in 20 years! Also, thanks to JOHN & LINDA BOWKER for their great help with registrations and auction tabulations. Also thanks to "El Kabong" CLARKE INGRAM for hosting the lively auction! The hotel, which is the site for the annual NASWA (North American Shortwave Association), was the Best Western Inn in Kulpville, north of Philadelphia. Other talks included JOHN BOWKERS Tampa Bay AM Radio Report, SCOTT FYBUSH's update of New Orleans area radio after Hurricane Katrina, the story of WODI-1230 Brookneal, VA by co-owners DAVE MARTHUSE and TONY DEE, and early Philadelphia radio by BEN DANGERFIELD. KEN CHATTERTON received the Member Of The Year award, and look for the NRC to also add "E-DXN". Next year's site for the convention is Akron, OH. On my own, this trip to stations in Central PA, from Johnstown to Allentown, was a huge success! I sure hope to write the story later in DX NEWS. Finally, a REINTRO: member since 1982 was thanks to DAVE SCHMIDT, have been DXing since 1970 and attending every convention from 1982, missing 1984. I have started DXing again with veries from WYNE-1530 and WJFK-1300. It was great seeing everyone again, including the new faces, in Kulpville! Best wishes to all and 73's!

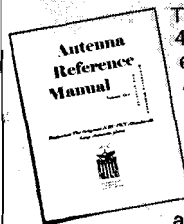
Dave Schmidt - P O Box 3111 - Scranton, PA 18505-0111

It was good to see everyone that made it to the convention over Labor Day weekend! This was my 3rd time at hosting the show, having done 2 in New Castle, DE in '86 and '97. And it was good to meet new people and see others you always enjoy talking with! Again, my deepest thanks go out to JOHN & LINDA BOWKER who were a huge help in setting up the registrations, scheduling and making things really work smoothly. And I hope that everyone had a chance to tune in Dave McCork's station, WNAR-1620, and will take a try at listening for his code ID's at 3 AM Daily. ERNIE WESLOWSKI was hawking the newest edition of the NRC LOG, and I bought one, maybe a sign that I will be hitting the dials when I get my couple of short longwires up soon? I trust that all will participate in the Musings column this season, the longest running column in DX NEWS! We welcome your reports, on what you're hearing, a great place for a new member to introduce yourself, sharing tips on certain ways that work for you on hearing stations, antenna systems that work for you, ways that you've cured interference/noise problems, and so on. And we're really looking forward to the electronic edition of DX NEWS, with the hopes that we can do sharing of the information with information received through it to the printed DX NEWS and vice-versa, an exciting move for the club into the future! We'll look forward to YOUR reports and participation in the NRC! Do your part - REPORT!

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